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Autumn Catalog 1923

Roses
Plants
FRUIT-SHADE-
ORNAMENTAL
TREES
AND
SHRUBBERY

DUTCH BULBS
Narcissi, Tulips
Hyacinths, Crocus, etc.
Direct from our
Holland Grower

Portland



Oregon

Bulb Planting Tables

Number of Bulbs Required for Planting Different Sized Beds of Tulips or Hyacinths

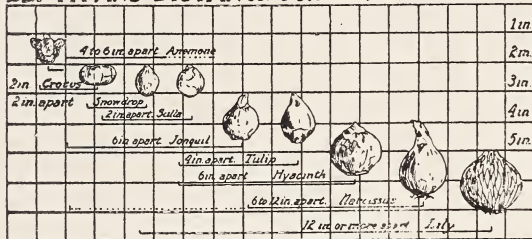
Everyone can afford a bed of flowering bulbs. They bloom so early, make such handsome and showy displays and require so little care that their general use is increasing each year. The best effect in bulb beds is obtained by planting to solid colors, but if variety is wanted we would not advise you to select over two or three colors. Too many colors spoil the whole effect. A very satisfactory way is to plant a solid center with one or two of the outer rows of another color, a pleasing effect is obtained by dividing the bed into four sections, planting each in a separate color. As the circular bed is the most popular and satisfactory, we use it as a basis to figure on. If you want a square or oblong bed the cultural directions of the different bulbs will give you the distance bulbs should be planted apart.

In ordering bulbs for the mixed beds and for the number contained in the two outer rows of different sized beds refer to table below.

Diameter of Bed	Total Number of Bulbs Required		Number of Bulbs Required for Two Outer Circles Only	
	Tulips	Hyacinths	Tulips	Hyacinths
3 feet	64	36	50	31
4 feet	113	50	68	45
5 feet	177	80	87	57
6 feet	254	120	104	69
7 feet	346	160	122	82
8 feet	452	210	140	95
9 feet	573	270	160	110
10 feet	707	330	180	120

NOTE—Plant the Tulips four inches apart in the rows and the rows four inches apart. Hyacinths six inches apart and the rows six inches apart. Narcissi same as Hyacinths. For Crocus, Snowdrops, etc., double the number of Tulips. See chart below.

DEPTH AND DISTANCE FOR OUTDOOR PLANTING



“Diamond” Fancy Lawn Mixture

GROWING tests have proved our “Diamond Quality” Lawn Grass to give satisfactory and permanent results, being specially prepared for our Western soils and climate, and will produce an evergreen velvety turf.

Price, per lb., postpaid, 55c, freight or express; not prepaid, per lb., 45c.

Sow one pound to 300 square feet, 12 to 15 pounds to a 50-foot lot.

The sooner Hyacinths and Daffodils are planted the better they will grow and force.

Suggestions for Tulip Beds

No. 1—Circular Bed of Vermilion Brilliant with edging of two rows of Chrysolora, yellow.

No. 2—Round Bed in four sections, first quarter Cottage Maid, pink; second, Chrysolora, yellow; third, Artus, scarlet; fourth La Reine, white. This arrangement is effective with two colors, red and white being best.

No. 3—A Circular Bed of pleasing variety is made with Kaiserskroon scarlet edged gold, in center, Belle Alliance scarlet, next, then La Reine white, and on the outside rows Chrysolora yellow.

Solid Beds of Murillo, early double light pink, Rose Grisdelin, early single, delicate pink, Couleur Cardinal, bronze scarlet and Pink Beauty, a lovely flower, the finest pink, are very attractive and give a display that cannot be excelled by any combination of colors.

No. 4—Bed in Two Sections or Rows; Van der Neer, violet lilac; Gold Finch, rich sulphur yellow. A charming unusual effect in blue and yellow.

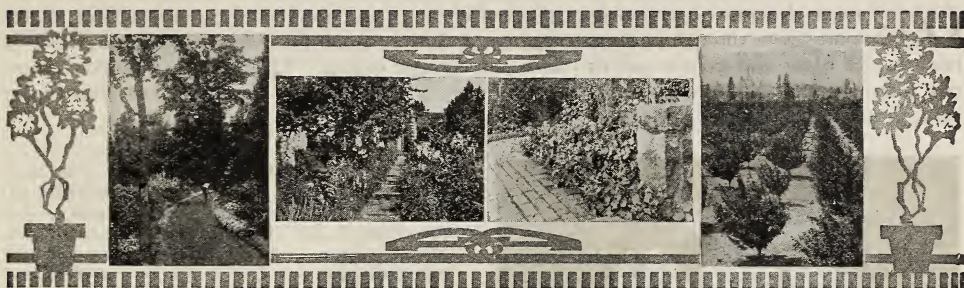
No. 5—Double Tulips—Rubra Maxima, scarlet, and Murillo give a fine showing, holding their form and lasting well.

No. 6—Single May Flowering—White Swan, Gesneriana Spathulata, rich crimson and Bouton d’Or, pure deep yellow, can be used in pleasing combination. They are tall growers (18 inches) and the best of their colors.

Plant a shallow rooting annual in your Tulip bed, and you will not have a bare spot when the bulbs are gone. It also keeps the weeds down. Forget-me-nots, Petunias, Pinks, Poppies, Verbenas, Candytuft, are a few of the best. Low growing perennials are also good, as they need not be disturbed. It is best not to lift Tulips each year. Leave them in the ground. They bloom better.

FLORISTS, GARDENERS AND LARGE BUYERS OF BULBS should submit their lists for special prices on the number of bulbs they use. We can save you money, and our “Diamond Quality” Bulbs will give you satisfaction.

AUTUMN CATALOG



FALL 1923 :: SPRING 1924

IN presenting our Fall Catalog, we wish to express to our many friends our thanks and appreciation of their liberal patronage that has made it possible for us to offer for their approval our present splendid and complete assortment of standard varieties and novelties. Our large importations of LILIES from Japan, and our full line of FRENCH and DUTCH FLOWERING BULBS, are now arriving in excellent condition. These are the finest stocks from the most reliable growers, and they come direct to us in their original packages.

Our FRUIT TREES, BERRIES, ORNAMENTAL SHADE TREES, etc., are grown for us in and around Portland. In no other place does Nursery stock grow to such perfection as in our own locality. A recent inspection in the field shows the quality to be unsurpassed; clean, well grown, free from disease and pests, and, in strict compliance with our State Horticultural Laws it is always inspected before shipping.

Our ROSES—Nowhere in the known world do roses grow to the perfection attained in our favored locality. This is no idle boast but an established fact. We are justly proud of our splendid field grown roses. The well known sorts and the newer types we offer are only such as are known to thrive here. We do not attempt to list all varieties of roses. There are hundreds of them that have no value in the open ground and thousands that have no value anywhere.

It is our earnest endeavor to offer only such varieties as are known to be desirable, and nowhere, we assure you, can you obtain better stocks or better values. We trust by our honest and prompt attention to merit your further approval.

FLOWERS, SHRUBS and TREES, and a well kept lawn add greatly to the value and beauty of your home, and time devoted to this care should prove a helpful and fascinating diversion, as well as a very profitable one.


IMPORTANT—PLEASE READ CAREFULLY

WHEN TO ORDER—We issue this Catalog in September, but your order placed at any time will go forward in season, as follows:

FLOWERING BULBS—Begin to arrive in September, deliveries being complete by December 1st, except Cannas, Dahlias, Gladioli, etc., which are not ready until after February 1st.

ROSES—Our large two-year old field grown roses are ready for delivery from November until May, one-year old mailing size from January to August. The earlier you set them the better they will grow.

PALMS, POT AND HOUSE PLANTS—Palms and plants should be potted as soon as possible after arrival and watered well for a day or two so as to settle the earth around the little fibrous roots.

 **Order Early**—it helps us to please you.

FRUIT, SHADE AND ORNAMENTAL TREES AND SHRUBS—We ship these from

November until May and recommend fall and early spring planting. If you do not want to plant on arrival, dig a trench and "heel" your trees in. If the ground is frozen, put them in a cellar and keep the roots damp.

COMPLAINTS OR PRAISES—If our goods and treatment please you, tell others; if anything is wrong, tell us quickly, so that we can make it right. Our best efforts will be given to filling all orders in a satisfactory manner.

WE NEVER SUBSTITUTE without permission from our customer. But as many items are sold out, as the season advances, when requested, we will substitute varieties of equal merit maturing about the same season. But always labeled true to name.

MAIL and EXPRESS CHARGES on BULBS

Flowering Bulbs and Roses are Prepaid at Catalog Prices to points in the United States within the 4th zone from Portland. Alaska, Canadian and foreign postage extra. All other items F. O. B. Nursery unless otherwise stated.

WE CANNOT SEND PERISHABLE GOODS C. O. D.—CASH MUST ACCOMPANY ALL ORDERS.

SEND MONEY by postoffice or express money order, bank draft or registered letter.

NO GOODS CHARGED UNLESS YOUR CREDIT IS ESTABLISHED WITH US.

HOW DO YOU WANT YOUR ORDER SHIPPED? Your order will be shipped any way you wish—by express, parcel post or freight. If you are in doubt about the best way to have your order sent, leave it to us. We will ship it in the most economical way.

We give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, nursery stock, roots or plants we send out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

PORTLAND SEED COMPANY

THIS CATALOG IS ISSUED BEFORE PRICES ARE ESTABLISHED, THEREFORE PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE; IF LOWER, YOU WILL BE PROTECTED.

HYACINTHS

OUR named Hyacinths have massive spikes of bloom of the most delicate and beautiful shades from pure white through blush to pink, rose and deepest red, from dainty porcelain shades of blue to blue black and from cream to yellow, apricot and orange. Their dainty wax-like flowers rare fragrance and easy culture endear them to every grower and they can be had in bloom from early winter to late spring.



SINGLE HYACINTH

When ordering Hyacinths for bedding refer to the table inside of front cover for number of bulbs required.

The assorted bedding Hyacinths we offer are fine large bulbs that will produce splendid spikes of bloom in the best colors. They are very low in price and much superior to the mixed bedding Hyacinths commonly sold and which are generally so variable in their shades of color as to spoil the general effect of the planting.

OUR "A" GRADE—For those of our customers who want to produce Hyacinths of the grandest size and finest quality, we recommend our "A" grade. These are extra choice, large, round, solid bulbs, selected especially for our best trade by our Holland growers. They will produce those handsome, mammoth flowers so highly prized, and are excellent for forcing and pot culture.

OUR "B" GRADE—This grade is usually bought, and we sell more of this price and size bulb than any other. Our "B" grade is equal, if not superior, to the "First" or "Select Grade" offered by many seed stores.

OUTDOOR CULTURE—The preferable season is October, November and December but bulbs give good results if planted somewhat later. Plant so that the tops of the bulbs will be from two to three inches below the surface and five to eight inches apart. In preparing the bed, see that it is well drained, so that the bulbs will not rot during our long wet winters. After flowering, if the beds are wanted for late spring planting take up the bulbs, top and roots, and "heel in" in some corner of the garden until the bulbs mature, after which they should be spread out in an airy room to dry, and kept in a cool dark place until time for replanting the following autumn.

INDOOR CULTURE IN POTS—Bulbs for winter blooming can be planted from September until December—the earlier the better. Plant one bulb to a four-inch, or three to a six-inch pot. Then place in a cool dark cellar, watering well. The whole success of pot culture depends on getting the roots well established in the pots, at a low temperature of say, 40 to 50 degrees, before you begin to force the tops. From four to six weeks is not too long to leave them in a dark, cool place. After this the bloom is easily developed by giving light, heat and water, and one can have a supply of flowers from Christmas until Easter by regulating the time of bringing them to light.

CULTURE IN GLASSES—When it is desired to grow Hyacinths or Narcissi in water, they should be placed so that the base of the bulb merely touches the water. The glass should then be set in a cool, dark place, until filled with roots, when they may be brought into the light. Fill the glasses with fresh water every few days. Give as much fresh air as possible without letting the plants stand in a draught, and as nearly as possible at a temperature of 60 degrees until the spikes are developed.

HYACINTHS—EARLY SINGLE

PRICES	A Grade . . . Each 20c; Doz	\$1.90; 100	\$14.25	} Postpaid
	B Grade . . . Each 15c; Doz	1.60; 100	12.00	
	C Grade . . . Each 12c; Doz	1.25; 100	9.50	

State varieties preferred.

Single Red and Pink

- CARDINAL WISEMAN**—Bright rose; fine broad spike.
GENERAL PELISSIER—Brilliant carmine, compact spike; an early forcer.
GERTRUDE—Fine rosy pink; excellent sort for forcing or bedding. Flowers large.
GIGANTEA—Fine blush pink; giant spikes.
LADY DERBY—(New)—Lovely light rose pink, large spike.
LA VICTOIRE—(New)—Brilliant carmine red, forces early, extra fine.
MARCONI—Bright pink, broad spikes, beautiful flower. New.
MORENO—Extra fine pink, very large spikes and bells; forces easily. Highly recommended.
QUEEN OF PINKS—Large compact flower, bright pink. An exhibition variety.
ROI DES BELGES—Bright scarlet; well formed compact truss of medium size bells.

Single Yellow

- CITY OF HAARLEM**—Bright golden yellow, large spike, extra fine.
KING OF YELLOWS—Bright golden yellow, grand spikes, a superior bedding variety.
YELLOW HAMMER—Golden yellow, extra fine flower, forces easily; exhibition variety.

Single Violet and Purple

- L'ESPERANCE**—Dark violet, very showy, good truss, late.
MAUVE QUEEN (Henriette)—Mauve, good spike.

Single Blue

- GRAND LILAS**—Extra fine porcelain blue; grand large spikes and bells; forces easily.
GRAND MAITRE—Fine deep porcelain blue, very large broad, well formed spike.
KING OF BLUES—Deep glossy blue, large compact spikes. The finest dark blue.
PERLE BRILLIANTE—Fine light blue, extra large spike, a grand novelty which deserves attention.
QUEEN OF THE BLUES—A beautiful light blue with silvery sheen; a large, handsome flower.

Single Pure White

- ARENTEINE ARENDSE**—Grand, pure waxy white flower, with large spike and bells.
LA GRANDESSE—Extra fine snow white, large spike, a grand exhibition variety.
L'INNOCENCE—One of the earliest; pure white; fine for forcing.
MADAM VAN DER HOOP—Pure white. Fine for general planting; erect habit.
QUEEN OF THE WHITES—Pure white, fine large spike, dwarf habit. Splendid for late pot-work. (New.)

- LORD BALFOUR**—Dark lilac, broad fine shaped large truss, well set with large waxy bells.
SIR WILLIAM MANSFIELD—Bright purple; good truss.

Select Double Named Hyacinths

While the flowers of Double Hyacinths are large and beautiful, the spikes are not generally so full of bells as those of the single sorts.

All First Size, Large, Solid, Select Bulbs. Price, each 20c; dozen \$1.90

- PRESIDENT ROOSEVELD**—Lively pink, large compact spike.
GENERAL KOHLER—Bright blue, large spike, extra for forcing.
GOETHE—Light yellow, good spike, fine large very double bells.
ISABELLA—Fine blush white; grand spike. **GARRICK**—Deep azure blue; very large spike.


DIAMOND QUALITY BEDDING HYACINTHS DISTINCT COLORS

A superior grade of selected bulbs, generally used for planting outdoors in making up beds, borders or large displays, but are equally good for forcing.

SINGLE—Pink, Red, Pure White, Yellow, Dark and Light Blue.
 Each 12c; doz. \$1.25. Per 100 \$8.50.

DIAMOND QUALITY BEDDING HYACINTHS ASSORTED COLORS

Mixed Straight Colors
SINGLE—Pink, Red, Pure White, Yellow, Dark and Light Blue.
 Each 10c; doz. \$1.10; 100 \$7.50.

 Bulbs prepaid 4th zone from Portland only. Postage to Canada, Alaska and outside points extra.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG



Early Single Tulips Single White

ALBION, B 10—(White Hawk)—One of the finest pure white Tulips in cultivation for forcing and bedding; flowers snow white, very large and of great substance.

Each 8c; doz. 80c; 100 \$6.50

LA REINE, B 8—Pure white; best white Tulip for forcing and bedding.

Each 6c; doz. 55c; 100 \$3.50

Single Violet

VAN DER NEER, A 10—Large violet purple, fine form, early. Each 9c; doz. 85c; 100 \$7.00

WOUVERMAN, B 8—Purple violet, large flowers; fine for out-door planting.

Each 8c; doz. 80c; 100 \$5.25

Single Pink

PINK BEAUTY, B 11—Bright rose pink shading to blush near yellow center. Has no equal in its class.

Each 12c; doz. \$1.20; 100 \$9.00

PROSPERINE, A 12—Fine glossy carmine pink, large and early forcer and a splendid bedding Tulip. Each 12c; doz. \$1.20; 100 \$8.50

ROSE LUISANTE, B 9—Deep pink, extra fine bedder; forces well.

Each 12c; doz. \$1.25; 100 \$9.00

ROSE GRISDELIN, B 7—Beautiful delicate pink.

Each 7c; doz. 60c; 100 \$3.75

Fine Single Mixed

All colors and shades; fine for bedding.

Each 5c; doz. 50c; 100 \$2.75

TULIPS

Extra Select Large Solid Bulbs

WHETHER planted in masses or small beds, Tulips produce a handsome and striking effect. They are equally desirable as pot plants and are always sure to bloom. Any good garden soil will grow them to perfection and no bulb makes such a gorgeous display of blossoms with so little cultivation.

CULTURE—The culture of Tulips is similar to that of Hyacinths, except that the bulbs should not be planted quite so deep, and from three to six inches apart. All single Tulips force easily. For indoor planting we have regular Tulip pans. Plant four bulbs to a six-inch pan; eight to an eight-inch pan, etc.

The letters A, B, C, following the varieties, indicate their earliness of bloom; the A's are the earliest, B's follow, etc. The average height in inches is also given for your benefit in selecting for bedding purposes.

Outdoors—Early or late planting does not seem to have much effect on Tulips, but they should be planted in fresh, rich soil, but not freshly manured, manuring should be done six months before planting.

Single Scarlet

ARTUS, B 7—Deep, brilliant scarlet, fine for forcing or bedding.

Each 7c; doz. 65c; 100 \$4.00

AUGUSTA—Bright deep rose, large globular shape; splendid for forcing. A splendid novelty of great merit; extra recommended for market and for bedding.

Each 8c; doz. 80c; 100 \$5.00

BELLE ALLIANCE, B 7—Brilliant scarlet, sweet scented; excellent for forcing and bedding.

Each 7c; doz. 80c; 100 \$5.50

BRILLIANT STAR—Brilliant scarlet, black center, large flower, tall erect stem.

Each 12c; doz. \$1.10; 100 \$8.00

COULEUR CARDINAL, B 10—Brilliant crimson, slightly dewed outside but inside glittering scarlet, large fine shaped flower of very great substance, strong stem. A grand variety for medium early and late forcing and splendid for all bedding purposes.

Each 12c; doz. \$1.10; 100 \$7.50

CRAMOISE BRILLIANT, B 10—(Sparkler)—Bright vermillion, large flowers of great substance, fine forcer.

Each 7c; doz. 70c; 100 \$4.50

DUC VAN THOLL COCHINEAL—Rich vermillion, very large flower, very early and easy forcer.

Each 7c; doz. 75c; 100 \$5.00

PRINCE OF AUSTRIA, B 12—Bright orange vermillion, sweet-scented flower, fine forcer and bedder.

Each 7c; doz. 75c; 100 \$5.50

VERMILION BRILLIANT, B 8—A beautiful flower, forces easily and early; one of the largest and finest scarlets.

Each 12c; doz. \$1.20; 100 \$8.25

EARLY SINGLE TULIPS—Continued

Single Yellow

CHRYSOLORA, A 9—Pure golden yellow, large and fine, excellent for bedding.

Each 7c; doz. 70c; 100 \$4.50

GOLD FINCH, B 9—Golden yellow, sweet scented; forces easily and early; a good bedding sort.

Each 8c; doz. 75c; 100 \$4.75

KING OF THE YELLOWS—Deep golden yellow, well shaped flower, round on the top. One of the earliest for forcing.

Each 7c; doz. 65c; 100 \$4.25

MON TRESOR—Pure golden yellow, very large flower, the best yellow Tulip for early forcing.

Each 7c; doz. 70c; 100 \$4.75

THOMAS MORUS, A 12—Apricot orange. The finest forcing Tulip of its color, very early.

Each 7c; doz. 65c; 100 \$4.50

YELLOW PRINCE, B 9—Sweet scented; one of the very best for forcing; a fine yellow.

Each 7c; doz. 70c; 100 \$4.75

Single Variegated

COTTAGE MAID, B 9—White bordered with pink, extra fine.

Each 8c; doz. 80c; 100 \$5.25

DUCHESS DE PARMA, C 10—Terra Cotta with yellow edge, good bedding variety.

Each 8c; doz. 80c; 100 \$5.50

KEIZERSKROON, B 9—Bright red, with yellow edge; very large, no other Tulip makes such a handsome bed.

Each 9c; doz. 90c; 100 \$6.00

Parrot Tulips

Parrot Tulips have immense flowers of brilliant and varied colors, with petals curiously fringed or cut. They are very showy and should be grown in every flower garden.

ADMIRAL DE CONSTANTINOPLE—Orange red, good size.

Breeder Tulips

ON account of the fast growing demand for these mostly bronze, brown and buff toned Tulips we have increased our stock with the best varieties and made out a more extensive list of names with description of color, etc., of the different varieties.

BRONZE KING—Bronze with olive base.

Each 10c; doz. \$1.00; 100 \$6.50

BRONZE QUEEN (Clio)—Light buff, inside glittering yellowish brown; flower of great substance.

Each 8c; doz. 70c; 100 \$4.50

CARDINAL MANNING (Goliath)—Rosy violet, flushed rosy brown, large flower.

Each 8c; doz. 75c; 100 \$4.75

DOM PEDRO—Coffee brown, largest in this color; highly recommended, forces.

Each 13c; doz. \$1.25; 100 \$8.50

FEU ARDENT—Fiery red, darker towards the bottom, forces very well.

Each 13c; doz. \$1.30; 100 \$9.00

GODET PERFAIT—Bright violet, clear and refined. A very long lasting flower on tall strong stem.

Each 12c; doz. \$1.35; 100 \$9.50

GOLDEN BRONZE—Golden bronze with deep gold base. A striking variety.

Each 10c; doz. \$1.10; 100 \$7.50

Early Double

Are used mostly for outdoor planting and bloom a little later than the early; being double and full, the blossoms last longer. This, with the great variety of kinds, makes them favorites with many.

BOULE DE NEIGE (Purity) A—Pure white large pacony-like flower.

Each 9c; doz. 95c; 100 \$6.50

COURONNE D'OR, B 8—The best double yellow for forcing.

Each 9c; doz. 93c; 100 \$6.25

MURILLO, B 8—Decidedly the best double pink Tulip for forcing or bedding; flowers large and full.

Each 7c; doz. 60c; 100 \$4.00

RUBRA MAXIMA, B 9—Bright crimson scarlet; splendid for bedding; cannot be forced; flowers large.

Each 8c; doz. 80c; 100 \$5.25

SALVATOR ROSA, A 7—Beautiful deep rose, flamed with white; fine for forcing.

Each 9c; doz. 90c; 100 \$6.25

TITIAN—Scarlet, edged yellow. Height, 12 inches.

Each 8c; doz. 80c; 100 \$5.00

TOURNESOLL, A 9—Bright red, with yellow edge, sweet scented, large flower. Easily forced.

Each 9c; doz. 95c; 100 \$6.50

EARLY DOUBLE MIXED—This mixture contains a large and choice assortment of all colors and shades; very suitable for outdoor planting.

Each 6c; doz. 60c; 100 \$3.50

CRAMOISE BRILLIANT—Beautiful carmine red, large flowers; very fine.

MARKGRAAF—Inside rich orange, outside scarlet and yellow, feathered, extra fine.

Prices: Each 8c; dozen 85c; 100 \$5.50.

Mixed. Prices: Dozen 75c; 100 \$5.00

HAMLET—Dark bronze, orange edge, long flower.

Each 10c; doz. \$1.00; 100 \$7.00

JAUNE D'OEUF—Heliotrope, changing to yellow; good forcer.

Each 10c; doz. 90c; 100 \$6.00

PANORAMA—(Fairy)—Mahogany red, highly recommended for forcing and bedding. Very attractive.

Each 10c; doz. \$1.10; 100 \$7.50

PRINCE OF ORANGE (Orange Beauty)—Orange red with narrow golden edge. Superbe, velvet brown.

Each 9c; doz. 90c; 100 \$6.00

REMBRANDT—Chestnut red and bronze, late.

Each 13c; doz. \$1.25; 100 \$8.50

TURENNE (MacMahan)—Dark blue edged brown-bronze, very large flower.

Each 13c; doz. \$1.30; 100 \$9.00

YELLOW PERCEPTION—Light bronze yellow.

Each 7c; doz. 80c; 100 \$5.25

Type of
May-Flowering
Tulips

Gesneriana
Spatulata



SINGLE TULIPS MAY FLOWERING

THESE are to be grown in the open ground only, each individual blossom being a marvel of beauty in itself. They grow from 18 to 24 inches high and appear at their best when used in the border, the foreground of shrubbery or buildings, or out of the way corners of garden, where, if left undisturbed, they will bloom with increasing beauty for years. They are extremely hardy and the flowers borne on long strong stems are good keepers when cut.

AVIS KENNICOTT—A deep yellow, elegant form, tall stem.

Each 12c; doz. \$1.20; 100 \$8.50

BOUTON D'OR—The only late pure deep golden yellow.

Each 8c; doz. 80c; 100 \$5.25

GESNERIANA SPATHULATA—Blossoms large; color rich crimson with dark center. Each 9c; doz. 75c; 100 \$4.75

GESNERIANA LUTEA—Deep yellow, fine large flower.

Each 8c; doz. 70c; 100 \$5.00

ISABELLA—(Shandon Bells)—Cream turning to carmine, large.

Each 8c; doz. 80c; 100 \$5.25

INGLESOMBE PINK—Salmon pink with blue base; one of the finest.

Each 8c; doz. 75c; 100 \$4.75

INGLESOMBE SCARLET—Same form as the pink type. Color a rich scarlet black base.

Each 8c; doz. 85c; 100 \$5.50

INGLESOMBE YELLOW—A large fine yellow of perfect form; may be used for yellow Darwin.

Each 8c; doz. 75c; 100 \$5.00

LA MERVEILLE—A large bright scarlet, suffused apricot orange; graceful long pointed petals.

Each 9c; doz. 80c; 100 \$5.25

MRS. MOON—Large orange yellow. The best of its color.

Each 9c; doz. 90c; 100 \$6.50

ORANGE KING—Bright deep orange, fine shaped, sweet scented, excellent for beds and borders.

Each 7c; doz. 70c; 100 \$5.00

PARISIAN YELLOW—Golden yellow, large flower, very late.

Each 8c; doz. 75c; 100 \$5.25

WHITE SWAN—A lovely egg-shaped pure white flower on long stems; extra fine cut flower.

Each 8c; doz. 80c; 100 \$4.50

ELLEN WILMOT—Lemon yellow.

Each 8c; doz. 85c; 100 \$6.00

PICOTEE—White with a pink border; fine for cutting.

Each 8c; doz. 75c; 100 \$5.15

Fine Mixed. Each 7c; doz. 65c; 100 \$4.00

CROCUS

A DESIRABLE EFFECT is produced by setting Crocuses here and there over the lawn. It is only necessary to lift the turf and insert the bulbs about two inches deep. They bloom very early, dying down to the bulb in ample time to be entirely out of the way of the lawn mower. Once planted, they will remain uninjured in the ground and bloom for years.

PRICE, except as noted......doz. 30c; 100 \$2.00

BARON BRUNOW—Bright purple, free bloomer, flowers large, extra fine.

KING OF THE WHITES—Mammoth snow white, truly the king of all white Crocus.

LOTHAIR—White with blue stripes, very beautiful and distinctive.

PURPUREA GRANDIFLORA—Bright purple, large, fine flower.

Separate colors in mixed shades are extensively planted for outdoor beds or borders.

ASSORTED—Blue, striped, white or yellow. Doz. 30c; 100 \$2.00 **MIXED**—All colors. 100 \$1.50

MONT BLANC—Large, pure white; one of the finest.

MAMMOTH YELLOW—Yellow, selected bulbs of large size; finest blooms. Per doz. 50c; 100 \$3.00. First size, doz. 40c; 100 \$2.50.

SIR WALTER SCOTT—White, striped with purple, the best striped, very large.

Price, doz. 50c; 100 \$3.00

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

GIANT DARWIN TULIPS

DARWINS are rapidly becoming the most popular Tulip for outside planting. They flower in May, are of giant size and have a majestic beauty distinctively their own that is invaluable for garden and landscape effects. They come in the most varied and brilliant colorings, and their immense globular flowers of perfect form and satiny, wax-like texture, long stems and lasting qualities, make them ideal for cutting.

For best effects Darwins should be planted in clumps of from 15 to 25 bulbs of one color, or in the foreground of shrubs, trees, borders, or buildings. They prefer partial shade, but will thrive in any location.

BARTIGON—Dazzling scarlet, big strong stem, large flower. One of the best forcing varieties.

Each 10c; doz. \$1.00; 100 \$7.00

CLARA BUTT—Bright apple blossom pink, a brilliant and beautiful self-color. Conceded by all critics to be the most magnificent of the Darwin type; splendid for forcing and flowers.

Each 7c; doz. 70c; 100 \$4.25

DREAM—Beautiful soft lilac self-colored, extra large.

Each 8c; doz. 75c; 100 \$5.00

EUROPE—Salmon scarlet, shaded rose.

Each 9c; doz. 90c; 100 \$6.00

FARNCOMBE SANDERS—Magnificent brilliant scarlet, a finely formed giant flower; the best red Darwin.

Each 10c; doz. 90c; 100 \$6.00

FAUST—Black Violet; one of the best black Tulips.

Each 10c; doz. \$1.00; 100 \$7.00

FLAMINGO—Fine pink, one of the finest Darwin.

Each 9c; doz. 90c; 100 \$6.00

GRETCHEN—Large globular delicate pink flower, inside soft blush.

Each 8c; doz. 70c; 100 \$4.25

HIPPOLYTE—A unique color among Darwin sorts being a beautiful blue-violet shade.

Each 9c; doz. 85c; 100 \$5.50

KING HAROLD—Deep garnet red with purple black base. Splendid variety for border use. Strong stems.

Each 8c; doz. 80c; 100 \$5.75

LA CANDEUR—(White Queen)—Splendid white flower tinged delicate blush; large size.

Each 9c; doz. 90c; 100 \$6.00

LA TULIP NOIRE—The Black Tulip—Flowers large, lustrous and attractive, of fine form, grows 24 inches high. A rare novelty.

Each 8c; doz. 80c; 100 \$5.25

MASSACHUSETTS—Large flowers of vivid pink with white center. Superb for outdoor planting.

Each 9c; doz. 90c; 100 \$6.00

MME. KRELAGE—Bright pink, lighter edge.

Each 9c; doz. 90c; 100 \$6.25

NORA WARE—Lovely silvery lilac with white suffusion. A very popular variety; height 20 inches.

Each 8c; doz. 75c; 100 \$5.00

PAINTED LADY—Cream white. An extra good forcer.

Each 8c; doz. 90c; 100 \$4.50

PRIDE OF HAARLEM—Brilliant salmon rose, shaded scarlet, blue at base; of grand size and form.

Each 8c; doz. 70c; 100 \$4.25

REV. EWBANK—Soft mauve, light edging.

Each 8c; doz. 75c; 100 \$4.75

ROI D'ISLAND—(Matchless)—Carmine pink, large. The best pink Darwin Tulip for late forcing, strong stem; keeps long time when cut.

Each 12c; doz. \$1.10; 100 \$7.50

VALENTIN—Clear blue violet, largest and tallest of all Darwins, highly recommended for bedding.

Each 12c; doz. \$1.10; 100 \$7.50

VICTOIRE D'OLIVIERE—Deep scarlet, an excellent variety for forcing, very useful for growing in pans. Strong stem and large flower.

Each 12c; doz. \$1.10; 100 \$7.50

WILLIAM COPELAND—Bright rosy-lilac. Splendid for early forcing.

Each 8c; doz. 85c; 100 \$5.50

MIXED—Each 7c; doz. 60c; 100 \$3.50.

Darwin "Clara Butt"



Don't Fail to Plant a
Few Clumps of

DARWINS

They make a wonderful
garden display and are
beautiful and lasting
when cut.



"DIAMOND QUALITY"

NARCISSI

WE CONSIDER NARCISSI to be the most satisfactory and valuable of all flowering bulbs; their exquisite perfume, earliness, free blooming and keeping qualities endear them to all who have grown them.

Once planted in the field or garden they need no further attention but will thrive and perpetuate themselves, increasing in beauty for years.

Popular Types

POLYANTHUS—Flowering in clusters; the "Paper White" being the earliest, easiest to force and best known of this class.

"DAFFODILS"—The trumpet types are the most widely known, and some of the best garden varieties are of this class; they also force easily, making ideal pot plants.

"STAR NARCISSUS"—The "Chalice Cupped" are the daintiest and most charming of all types. To this class belong the *Incomparabilis*, *Barrii*, *Leedsii*, etc., all splendid garden varieties that will give perfect results when grown in pots or forced.


POETICUS or "PHEASANTS EYE" NARCISSUS—The White flowered give us some of the best of the later garden types, being hardy, sweet scented, very chaste and beautiful. Some varieties force easily, others are best suited to the garden or field.

POETAZ NARCISSI—Are hybrids of *Poeticus* and *Polyanthus* types, forming a distinct and beautiful, free blooming, large cluster flowered class, equally valuable for bedding or forcing; extremely hardy.

Culture of Narcissi

Outdoor Culture—Plant in early fall if possible but plantings as late as Christmas will give excellent results. The depth to plant is $1\frac{1}{2}$ the depth of the bulb. This gives a covering of 2 to 3 inches of soil. Any good garden soil which has not been recently manured will give satisfactory flowers, but a deep, moist loam is best. If the ground is dry or sandy it should be dug deeply, well manured and an annual such as potatoes grown the year previous. If your soil is light and you do not want to take off a crop before planting, give a light dressing of lime to the surface and work in a layer of well rotted manure a foot below, so as to be out of reach of the bulbs; this layer is to hold the moisture, not as a fertilizer. The best fertilizer is ground bone. This can be used with safety on poor sandy soil.

Pot Culture—The Bulbs should be planted as soon as received as earliest plantings insure finest flowers. In pottings use good, turfy loam, but let no manure of any kind, well rotted or otherwise, touch the bulb. Set in a cool, dark room for a month or two, until well rooted, then remove to the light for flowering. (All bulbs prefer a cool temperature. Be careful not to grow them too warm.) Do not cultivate too much, as extra vigor of growth injures the purity of color. Some Narcissi prefer partial shade but grow splendidly in any situation.

 *In planting Narcissi large groupings of irregular outline give most pleasing effects, shun symmetrical lines or formal designs.*

Double Daffodils

ALBA PLENA ODORATA—"The Double White Poet's Narcissus."—Double, snow-white flowers, exquisitely scented; late flowering: cannot be forced.

Each 7c; doz. 80c; 100 \$5.50

ORANGE PHOENIX (3)—(Eggs and Bacon) Beautiful double white flowers, with orange center; splendid for pot culture, cutting and garden planting.

Each 10c; doz. \$1.00; 100 \$7.50

VON SION—(*Telamonius Plenus*) (2)—"The True Double Yellow Daffodil." Rich golden yellow perianth and trumpet. Thrives and blooms in increasing profusion every spring and is also one of the best winter flowering and forcing sorts. Each 10c; doz. \$1.00; 100 \$7.05

VON SION No. 2—Ea. 8c; doz. 80c; 100 \$5.50

SILVER (SULPHUR) PHOENIX (3)—Very large flowers; pale creamy white, shading to primrose. Each 10c; doz. \$1.00; 100 \$7.50



DAFFODILS

THE TRUMPET TYPES OF NARCISSI are the true old fashioned form of Daffodils, they are the largest and most glorious of all Narcissi and are perfectly hardy everywhere. Can also be grown in pots.

BARRII CONSPICUUS—(4)—Long-stemmed flowers, with beautiful broad-petaled perianth; sparkling canary yellow, with deep golden cup, richly edged with orange scarlet.

Each 8c; doz. 75c; 100 \$5.25

BICOLOR EMPRESS—(3)—Perianth snow-white, trumpet rich yellow, serrated and flanged at the edges, large in outline and of rare beauty.

Double Nose—Ea. 12c; doz. \$1.30; 100 \$10.00

First Size—Ea. 11c; doz. \$1.10; 100 \$7.50

BICOLOR VICTORIA—(2)—A magnificent large variety, bold and erect. Sweet scented. Perianth white and of great substance; trumpet rich yellow.

Db'l Nose—Each 12c; doz. \$1.30; 100 \$10.00

First Size—Each 11c; doz. \$1.20; 100 \$8.00

EMPEROR—(3)—Perianth primrose; trumpet large, rich deep yellow. One of the finest Daffodils grown.

Db'l Nose—Each 12c; doz. \$1.30; 100 \$10.00

First Size—Each 9c; doz. \$1.10; 100 \$7.50

GOLDEN SPUR—(1)—Extra large, bold, rich, golden yellow flowers, foliage very broad and striking; unsurpassed for gardens, pots and forcing.

Db'l Nose—Each 11c; doz. \$1.30; 100 \$10.00

First Size—Each 10c; doz. \$1.00; 100 \$7.50

GLORY OF LEIDEN—(4)—A bold, giant daffodil, with golden yellow trumpet, perianth lighter, forces well, and very hardy in open ground. Each 12c; doz. \$1.30; 100 \$10.00

Poeticus Varieties

The large, single blossoms, 2 to 2½ inches across, are of a snowy whiteness, intensified by the exquisite golden colored cups, ringed like a pheasant's eye, with red and green.

GLORY OF LISSE—(4)—The new Poeticus, largest of the type. Snowy white, perfectly formed. Each 10c; doz. \$1.10; 100 \$8.75

POETICUS (Pheasant's Eye)—(5)—Pure white flowers, orange cup, edged with red. Very useful for cutting in spring; are perfectly hardy out of doors—will bloom year after year. Does not force.

Each 9c; doz. 90c; 100 \$6.00

To enable you to plant for succession of bloom, we have numbered the varieties in their relative earliness. No. 1, early March; No. 2, late March; No. 3, early April; No. 4, late April; No. 5, May.

KING ALFRED—Rich golden yellow. Very large, broad, elegantly twisted and beautifully recurved trumpet, broad massive well formed perianth.

Db'l Nose—Each 30c; doz. \$3.50; 100 \$25.00

First Size—Each 25c; doz. \$2.50; 100 \$23.00

POETICUS ORNATUS—(4)—(The Improved Poeticus)—Pure white cup, edged with scarlet. Good forcer and earlier than Poeticus.

Db'l Nose—Each 9c; doz. 90c; 100 \$6.00

First Size—Each 7c; doz. 75c; 100 \$5.00

LUCIFER—Large white perianth, cup intense glowing orange-red. First class certificate R. H. S.

Each 9c; doz. 95c; 100 \$7.00

MAD. DE GRAAFF—(4)—Opens with soft primrose trumpet passing to white, forces well and for garden or naturalizing in grass has no superior.

Each 12c; doz. \$1.25; 100 \$9.00

SIR WATKIN—Incomparabilis Type—(2)—"The Giant Chalice Flower," or "Big Welshman." Immense, long stems, flowers of rich light yellow, with a large, dark cup, tinted with orange.

Db'l Nose—Each 12c; doz. \$1.30; 100 \$10.00

First Size—Each 10c; doz. \$1.10; 100 \$8.00

Cluster-Flower—Poetaz Narcissi

These are hardy hybrids between Polyanthus and Poeticus, very vigorous, bearing in profusion clusters of delightfully fragrant flowers. Good keepers, forcing or bedding.

ELVIRA—Broad, white petals, deep golden cup, with scarlet edge, delicious fragrance.

Each 9c; doz. 95c; 100 \$9.00

IRENE—Perianth yellow, cup orange.

Each 9c; doz. 95c; 100 \$8.50

JONQUILS

A species distinguished by rush like leaves. Easily grown in the house or open ground.

JONQUIL CAMPERNELLE RUGULOSUS—Improved giant, beautiful rich yellow.

Each 10c; doz. \$1.00; 100 \$7.00

JONQUIL CAMPERNELLE RUGULOSUS PLENUS—Double yellow flowers of great beauty.

Each 10c; doz. \$1.00; 100 \$7.00

JONQUIL SIMPLEX—Sweet scented.

Each 10c; doz. \$1.00; 100 \$7.00



Narcissus "Paper White"

Freesias

These popular winter blooming bulbs force readily, and by successive plantings will last throughout the season. Their handsome clusters of white flowers have a most delicious fragrance. Plant four to six in a 4-inch pot.

PURITY—New Giant Freesia—Pure white.
Doz. 50c; 100 \$3.50

Our connection with the most successful and reliable growers of **Freesia** enables us to supply our patrons with the choicest grades both in size and quality possible to produce and at prices no higher than for the average commercial grades.

Calla Lilies

CALLA, Ethiopia—(Lily of the Nile)—An old and well known house plant; white, trumpet-shaped flowers.

Bulbs 20c each; \$2.00 doz.

CALLA, New Godfrey—This new variety gives three flowers to one of the older variety. Flowers snow white and perfect in form. Blooms on very small plants.

Bulbs 25c each; \$2.50 doz.

CALLA, Elliotana—Immense yellow trumpet-shaped flowers. Green leaves, finely mottled white.

Bulbs 35c each; \$3.75 doz.



EARLY FLOWERING BULBS

FOR INDOOR PLANTING

THE EARLY FLOWERING BULBS for indoor planting will give the first winter flowers and can be had in succession from early winter until spring. They are of easy culture, sure to bloom, and should be in every home and school room.

Narcissi—*Polyanthus*

The Polyanthus varieties of Narcissi are not only beautiful, but deliciously sweet-scented, and of the easiest culture, very free flowering and suitable for forcing indoors or bedding out, continuing long in bloom.

Include the choice named varieties such as **Grand Monarch**, white; **Soleil D'Or**, yellow; **The Pearl**, **Gloriosa**, etc., and are suitable for open ground or pot culture.

They can also be grown in water the same as the "Paper White."

Each 10c; doz. \$1.25; 100 \$9.00

Paper White—*Grandiflora*

Beautiful fragrant flowers of pure white; forces admirably and flowers freely in dense clusters; will bloom in December, if potted early. Anyone can grow them in the house successfully. Plant one bulb to a three-inch pot, four to a six-inch pot. Can be grown in water. See page 3, under Hyacinths.

Each 10c; doz. \$1.00; 100 \$7.50

Sacred Chinese Lily

A variety of Narcissus, bearing in lavish profusion chaste flowers of silvery white with golden cups, which are of exquisite beauty and entrancing perfume.

These grow well in pots of earth, but are more novel and beautiful grown in shallow bowls of water, with enough pebbles to prevent them from tipping over when in bloom. A dozen bulbs started at intervals will give a succession of flowers throughout the winter.
Each 20c; doz. \$2.00; postpaid.



China Lily

For growing Narcissus and Hyacinths in glasses, see pages 2 and 8

LILY OF THE VALLEY

Extra Select Pips

One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, are perfectly hardy, and will succeed in shady situation. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn. For outdoor planting and Winter forcing, pips are ready December to March.

SELECTED PIPS, for forcing indoors or planting outside. **Doz. 75c; 100 \$5.00**

SELECTED CLUMPS, for outdoor growing. **Each 25c**

TIGER LILIES

TIGRINUM SPLENDENS (Improved Single Tiger Lily)—Has very large flowers of excellent form, color orange-salmon, with dark spots; hardy and a free bloomer.

Large bulbs.....**Each 20c; doz. \$1.75**

OREGON LILIES

WASHINGTONIANUM—(Mt. Hood Lily)—A beautiful Lily, native of Oregon; flower large, of open form, white, tinted with lilac, grows 3 to 5 feet high; very fragrant.

Choice bulbs.....**Each, 20c; doz. \$1.75**



Lily of the Valley

LILIUM LONGIFLORUM—*Giganteum*—Of grand, size and substance; especially fine for open ground. Plant in early December for Easter blooming.

Mammoth bulbs.....**Each, 35c; doz. \$3.50**
Large bulbs.....**Each, 30c; doz. 3.00**

LILIUM FORMOSUM

LILIUM FORMOSUM is the best of the Longiflorums being early free blooming, healthy and vigorous, but for best results should not be planted earlier than November for Easter blooming. Our stock is of the best quality and is ready for delivery in September.

Mammoth bulbs.....**Each, 30c; doz. \$3.00**
Large bulbs.....**Each, 25c; doz. 2.75**

LILIUM REGALE—(Myriophyllum)

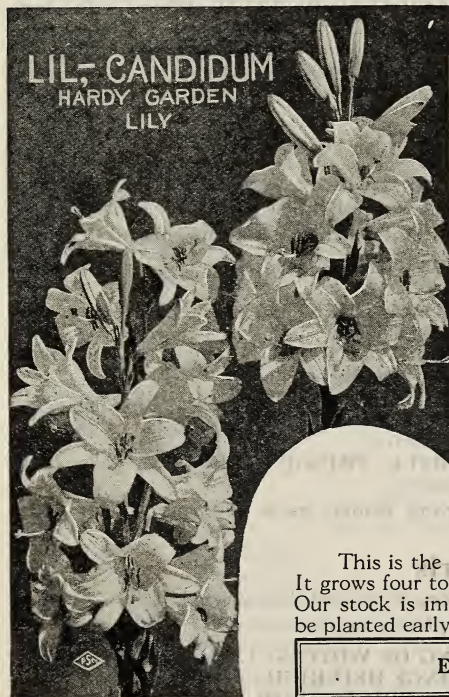
LILIUM REGALE—(Myriophyllum)—The most vigorous and satisfactory Lily that has ever come under our observation. Perfectly hardy, of medium height, often bearing five to eight large handsome blooms. The color is white, the outer petals shaded in varying amount with pink, the throat suffused primrose-yellow, and fragrant.

Price: Each 50c; doz. \$5.00

Lilium Candidum

This is the ever popular, fragrant snow white, hardy garden Lily. It grows four to five feet high and blooms in the open ground in June. Our stock is imported from the Azores, the finest obtainable; should be planted early.

Each 30c; doz. \$3.00



EASTER SUNDAY, APRIL 20th, 1924

LILIES—JAPAN

Lilies planted outdoors during the fall or early spring flower each year from June to October.

After bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our coast climate being perfectly suited to their requirements and once established, they rival the famous product of Japan.

LILIUM AURATUM (Golden Banded Lily)

The handsomest and best known of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a gold band fading at its edges into white; very fragrant. They bloom from June to October.

Large bulbs. . . . Each, 25c; doz. \$2.75

AURATUM PLATYPHYLLUM

The flowers are similar in color to Auratum, heavily spotted, but are much larger.

Mammoth bulbs. Ea. 30c; doz. \$3.25

LILIUM SPECIOSUM

No words can overstate the brilliant beauty of this charming class. One of the most effective and desirable of the Lily family. They are profuse bloomers and last for days after being cut and put in water.

SPECIOSUM RUBRUM—White with dark rose spots. The most popular of the speciosum varieties. A hardy, vigorous grower and free bloomer.

Large Bulbs. Each, 20c; doz. \$2.00

SPECIOSUM ALBUM—Pure white, flowers freely.

Large bulbs. Each, 30c; doz. \$3.00

HARDY IRIS

Hardy Iris is one of the best of the early spring flowers, is hardy everywhere and if planted in a moist situation or watered freely will produce magnificent orchid-like blooms of great size and delightful fragrance. Comes in charming color effects in **blues, browns, yellows, purples, white.**

CAPRICE—Rose, with base a deeper rose red.

EDITH COOK—Clear yellow, base yellow veined dark red maroon.

FLORENTINE—Cream white, faintly flushed lavender.

HECTOR—Soft yellow, base velvety crimson.

HONORABILIS—Golden yellow, falls mahogany crown.

LIBERTY—Bright azure blue, superior to Pallida Dalmatica. Grows three to five feet high.

LOHENGRIN—Cattleya rose, graceful large flower.

MIDNIGHT—A rich deep purple, the finest in color.

MADAM CHEREAU—White, with border of clear blue.

NIBELUNGEN—Olive green, base yellow purple and white.

PRINCESS VICTORIA LOUISE—Pale yellow, base rich violet, edged cream, very attractive.

PURPLE PRINCE—Violet blue, falls dark purple.

Strong Roots, each 25c; per dozen \$2.50

Spanish Iris

These beautiful flowers, with their dainty shape, long stems and charming colors, are becoming more popular each year for forcing. They are largely planted outdoors, as well.

BELLE CHINOISE—Earliest golden yellow.

HEAVENLY BLUE—Deep sky blue.

KING OF BLUES—Deep dark blue.

KING OF WHITES—Large pure white.

PRINCE HEINRICH—New, best bronze.

PRICES: Each 10c; doz. \$1.00

IRIS

IRIS are of such easy culture and rare beauty that every one should grow them. They make a magnificent display either in clumps or border, blooming profusely and increasing rapidly and are perfectly hardy in the open ground, preferring a moist situation. Plant Fall or early Spring.

Varieties listed below, the best collection to be had in the Northwest.

Japanese Iris (*Iris Kaempferi*)

Japanese Iris are unsurpassed for their brilliant and varied colorings, producing effects that are truly marvelous. Blossoms early summer. Plant three inches deep, about 4 inches apart; divide the clumps every two years. Fertilize established beds while dormant, using stable manure, but do not apply after growth starts. Doubles have six petals, singles three.

AZURE—Double. Immense flower exquisitely wavy, mauve blue with darker halo surrounding the yellow blotch at base of petals. Very large and fine.

AMETHYST—Single. Very large wavy petals, most exquisite lavender shade.

GOLD BOUND—A fine double pure white, enriched by a creamy glow from the gold banded center.

MAHOGANY—Large double, flower purple mahogany red.

MT. HOOD—Double. Light blue, shaded darker, bright orange center.

PINK PROGRESS—Single ash grey lavender, clear blue halo overlaid with a silver sheen.

PYRAMID—Double violet purple, veined white in center of each petal.

PRICES: Strong roots, each 40c; per dozen \$4.00, F.O.B. Portland; if mailed, postage extra.

DOUBLE AND SINGLE MIXED—No named varieties—All colors and shades. Each 20c; doz. \$2.00; 100 \$15.00.



JAP IRIS

Very Hardy

You should add them to your garden

MISCELLANEOUS FLOWERING BULBS

Anemones

ANEMONE—Single Scarlet, Blue, White and Mixed. Each 8c, doz. 75c, 100 \$5.00

Scilla

One of the prettiest dwarf early spring blooming bulbs, producing sprays of exquisite flowers.

SCILLA. Each 5c, doz. 50c, 100 \$3.00


CAMPANULATA BLUE QUEEN.

Snowdrops—*Galanthus*

The first flower to bloom in the spring, producing small but beautiful white blossoms. Plant about one inch apart, setting two or three inches deep. They come up from year to year.

SINGLE. Two for 5c, doz. 40c, 100 \$2.50

DOUBLE. Each 8c, doz. 75c, 100 \$5.00

 Bulbs prepaid to 4th Zone only

Ixias

A beautiful little flowering bulb, with low, slender, graceful spikes of bloom. Rich and varied colors. Culture same as Hyacinths.

Named Varieties, Mixed.

Each 5c, doz. 50c, 100 \$3.00

Fine Mixed.

Each 5c, doz. 40c, 100 \$2.50

Ranunculus

Among dwarf flowers these are unrivaled for their vivid and gorgeous colors. Fine for winter pot plants and make an attractive addition to the border or flower garden in summer. We offer named varieties assorted.

TURBAN—Large Pacony-formed flowers; early, compactly double. Ea. 5c, doz. 40c, 100 \$2.50

GIANT FRENCH—Immense loosely formed double flowers. Each 5c, doz. 40c, 100 \$2.50

PERSIAN—Rose-shaped flowers, very double and rich. Each 5c, doz. 40c, 100 \$2.50

SWEET VIOLETS

Price each 20c; 6 sorts, \$1.00, Postpaid

Single

BARONESS ROTHSCHILD—Similar to Princess of Wales, but blooms more freely.

CALIFORNIA—Very showy flowers of enormous size, deep violet blue; deliciously fragrant.

PRINCESS OF WALES—Gigantic flowers, of a very rich shade of blue, extremely fragrant.

Double

LADY HUME CAMPBELL—Beautiful light blue, very free-blooming, exquisitely fragrant.

MARIE LOUISE—A constant bloomer, producing large flowers, lovely deep violet purple.

SWANLEY WHITE—The finest and best double white violet in cultivation.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

PERENNIAL BORDER AND BEDDING PLANTS

WE offer well-rooted specimens that can be safely packed and promptly delivered in perfect condition. If you contemplate large plantings or special effects, let us know your plans and requirements. We can supply in any quantity for every requirement at lowest prices.

By proper arrangement cut flowers and a grand garden display can be obtained throughout the season. The great advantage in planting perennials is their permanency and the fact that they require so little care.

PLANTS, Each 20c; doz. \$2.00, F. O. B. Portland; if mailed, postage extra.

Plants marked by Star (*) are for Rockeries and Borders.

ACHILLEA—(Milfoil or Yarrow)—Suitable for dry sunny places. Flowers fine for cutting.

Parmica "Boule de Neige" (Ball of Snow)—An improvement on "The Pearl" flowers, while not so large are of more perfect form with fuller centers, making it appear purer in color.

**Tomentosa (Woolly Yarrow)*—Finely cut dark green foliage and numerous flat heads of bright yellow flowers; July to September.

ACONITUM—(Monkshood)—Form bushy clumps and are invaluable for planting under trees, or in shady positions.

Wilsoni—Large dark blue flowers. 4 to 6 feet. September to October.

Fischeri—Large pale blue flowers. 18 to 20 inches. September and October.

***ALLYSSUM SAXATILE COMPACTUM**—(Gold Dust)—An indispensable plant for the rockery and border, producing masses of bright yellow flowers in April and May. 1 foot.

ANCHUSA ITALICA—(Alkanet)—Justly take a front rank among early summer flowering perennials. Drop-mo variety.

ANEMONE JAPONICA—(Japanese Windflower)—Among the most important hardy plants blooming in August, continuing until cut down by frost.

Alba—Pure White.

Rubrum—Single rosy red.

Queen Charlotte—Very large semi-double of La France pink.

ANTHEMIS—(Marguerite)—*Tinctora Kelwayi*—Handsome finely cut foliage and large golden yellow flowers. All summer. Does well in the poorest soil.

***ARABIS**—(Rock Cress)—*Alpina*—One of the most desirable of very early spring flowering plants. Fine for edging and rockwork, pure white.

Alpina Fl. Pl.—Double.

***ARMERIA**—(Sea Pink or Thrift)—Attractive dwarf plants that will succeed in any soil, forming dense evergreen tuft of bright green foliage. Flowers appear in dense heads on stiff stems.

Formosa—Light pink, stems 12 to 15 inches.

Vulgaris—Dwf. Rose Pink; stems 6 to 10 inches.

ARTEMISIA LACTIFLORA—(Hawthorn Scented Mugwort)—This comparatively new introduction from China is a most effective flowering plant with erect stems from 3 to 4 feet high, clothed with elegantly cut dark green foliage and terminated by panicles of Hawthorn-scented, creamy white Spirea-like flowers. August and September.

ASCLEPIAS—(Butterfly Weed)—*Tuberosa*—Very showy native plants about 2 feet high. Flowers of brilliant orange-scarlet. July and August.

ASTERS—(Fall Flowering Hardy Michaelmas Daisies)—Among the showiest of our late flowering perennials giving a wealth of bloom during September and October. For best effect should be planted in masses of one color.

Abendoethe (Evening Glow)—Rosy Red; 3 feet.

Feltham Blue—Pretty Aniline blue, very free. 2½ feet. *Gerth of Colwall*—Large, almost double; sky blue. 2½ feet.

Maggie Perry—Very large flowers; loosely arranged in large trusses in a pleasing shade of mauve.

Novae Angliae—Bright violet-purple. 4 feet.

Nova Belgii St. Eugin—Soft rose pink, very free. 3 feet.

Perry's White—Without doubt the finest white Hardy Aster yet produced. Strong grower. Flowers pure white—golden center. 2 inches in diameter and when fully developed, center turns to crimson. 3 to 4 feet.

***ALPINUS**—Indispensable for rockery or border; large bluish purple flowers with golden yellow center. 6 to 10 inches high. May and June.

***NEW JAPANESE HARDY ASTER—MAUVE CUSHION**—An entirely distinct species. Forms a round cushion-like plant; 8 to 10 inches high in center and 2 to 3 feet in diameter. Comes into bloom in October, continuing through November, when it is completely covered with mauve flowers.

***AQUILEGIA**—(Columbine)—The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising 2 feet or more above the beautiful divided foliage.

Dreer's Chrysantha—Yellow—long spurred.

Dreer's Long-Spurred Hybrids—Blue, white, pink and yellow. Can supply in mixture only.

The following new Aquilegia are direct from England

Glandulosa Vera—Blue and white. 2 feet.

Long Spurred Delicatissima—Rose and yellow. 2 feet.

Rose Queen—Rose, white and yellow. 2 feet.

Snow Queen—White.

Skinneri—Scarlet and green.

***AUBRETIA**—(False Wall Cress)—One of the daintiest and most delicately beautiful of all dwarf creeping plants for carpeting beds or rockery, forming brilliant sheets of blue, crimson or rose, for many weeks in early spring. Large flowering Hybrids.

***BELLIS PERENNIS**—(English Daisy)—Improved double flowering white or pink.

BOCCONIA CORDATA—(Plume Poppy)—A noble hardy perennial, beautiful in foliage and flower, admirably adapted for planting in the shrubbery borders. Flowers creamy white. 6 to 8 feet.

BOLTONIA—(False Chamomile)—Among the showiest of our native hardy perennials with large single white or pink hardy aster-like flowers.

Asteroides—White. 5 to 7 feet.

Latisquama—Pink, slightly tinged with lavender. 4 to 6 feet.

BUPHALMUM SALICIFOLIA—(Yellow Oxeye)—Producing an abundance of yellow star shaped flowers. June and July. 1 foot.

CAMPANULA—(Bellflowers)—*Canterbury Bells*—This popular variety in Pink, White, Blue and mixed colors. Single.

**Carpatia*—(Carpathian Harebells)—A pretty species growing in compact tufts not exceeding 10 inches in height. Flowers clear blue or white, fine for rockery or border.

Glomerata—Large heads of deep purple flowers. 2 feet.

Latifolia Macrantha—Large purplish blue flowers. May and June. 2 feet.

Persicifolia—(Peach Bells)—Blue or white flowers. June and July. 2 feet.

Pyramidalis—(Chimney bellflower)—The most conspicuous of all Campanula, forming a perfect pyramid crowded with large silver-like porcelain blue flowers in August.

**Rotundifolia*—(Blue Bells of Scotland)—True Harebell. Clear blue flower from June to August. 1 foot.

CENTAURA—(Hardheads or Knapweed)—Of easy culture, delighting in an open sunny position. Not only makes a fine display in the border but is excellent for cutting.

Macrocephala—Large thistle-like yellow flowers. June to August. 3 to 4 feet.

Montana—Large blue flowers. June to August. 2 feet.

Montana-Alba—White.

CEPHALARIA—(Roundheads)—*Alpina*—Attains a height of 6 feet. Delicate sulphur yellow flowers in June and July.

***CERASTIUM**—(Snow in Summer)—*Tomentosum*—A desirable low growing plant with silvery foliage and white flowers in June. Excellent for rockeries or covering graves.

CHELONE—(Shell Flower)—Stately and handsome perennials. 2 to 3 feet high, bearing numerous spikes of large flowerheads.

Barata Hybrids—Mixed colors.

Lyoni—Purplish red.

COREOPSIS—*Lanceolate Grandiflora*—One of the most popular perennials. Blooms entire summer and autumn. Rich golden yellow. Fine for cutting. 2 to 3 feet.

***CRUCIANELLA**—*Stylosa*—Early blooming rockwork plant with rose colored flowers. 6 inches.

DELPHINIUMS—(Hardy Larkspur)—Are our best blue cut flowers, perfectly hardy and established plants produce a number of spikes giving two or three crops during the season.

Belladonna—The freest and most continuous blooming of all. A clear turquoise blue.

Bellamosum—Habit and growth the same as *Belladonna*, but of a rich deep blue.

Formosum—The old favorite dark blue with white centre.

Gold Medal Hybrids—Seed selected from the best named varieties. Majority running to the lighter shades of blue. Can supply in mixture only.

DIELYTRA or DICENTRA—(Bleeding Heart)—An old fashioned favorite—its lovely racemes of graceful heart-shaped flowers are always attractive. Price, 75c ea.

DIGITALIS—(Foxglove)—Valuable and graceful flowers for garden, shrubbery or woodland. Gloxinea-flowered. A beautiful strain of finely spotted varieties, 4 to 6 feet.

DORONICUM—(Leopard's Bane)—Caucasicum. One of the most effective very early yellow spring flowering perennials.

***ERIOPHYLLUM CAESPITOSUM**—(Oregon Sunshine)—Tufted herbaceous perennials with finely cut foliage, woolly beneath. Flowers yellow.

ECHINOPS—(Globe Thistle)—*Ritro*—Interesting and showy thistle-like plants with globular heads of deep metallic blue flowers, which can be dried, remaining attractive for a long time. 3 to 4 feet high.

ERIGERON—(Flea Bane)—Hardy border plants, suggesting native asters, but blooming much earlier.

Aurantiacus Hybrids—More or less velvety. Perhaps the showiest of the genus. Rich mixture of color. 9 in. high.

Speciosus—Flowers rosy violet and purple. Fine for cutting, lasting several weeks. 1½ to 2 feet.

ERYNGIUM—(Sea Holly)—*Planum*—Handsome ornamental plants growing 2 to 3 feet high. Flower heads steel blue. Are useful to cut for vases or to dry for winter bouquets. July to September.

***EUPHORBIA**—(Wolf's Milk)—*Cyparissias*—Many short plume-like branches from the crowns and adventitious root-buds, covered with spreading dark green leaves. Bright yellow flower-like bracts. In May and June.

GAILLARDIA—(Blanket Flower)—One of our showiest hardy plants. Combination coloring of yellow, brown, crimson and orange.

Grandiflora—Mixed colors. 2 feet.

Kermesina Splendens—Rich crimson.

GAURA—*Lindenheimeri*—One of the finest hardy plants with 18 inch length branches of white and pink orchid-like flowers.

GALEGA—(Goat's Rue)—Hardy herbaceous perennials. Odd pinnate leaves and pea-shaped flowers of purplish blue or white.

Albiflora—White flowers. 2 to 3 feet.

Bicolor—Blue and white.

GERARDIA—Hybrids. A native perennial from the Atlantic Coast. Flowers rosy purple. 18 to 20 in. high.

***GEUM**—(Avens)—Well known plants growing about 18 inches high. Useful for cutting, rockery and borders.

Coccineum—Single, scarlet.

Mrs. Bradshaw—Tall, double, brilliant scarlet.

GYPSOPHILIA—(Perennial Baby's Breath)—Will thrive in any soil in a sunny position. Indispensable for bouquets.

Paniculata—When in bloom in July or August it forms a symmetrical mass, 2 to 3 feet in height, of minute pure white flowers.

**Repens*—An elegant trailing plant for the rockery with clouds of snow white flowers in May and June.

HELENIUM—(Sneeze Weed)—Hardy perennials bearing yellow and brownish flowers.

Autumnale Rubrum—Robust grower, bright terracotta red flowers. 3 feet.

Autumnale Superbum—Massive spreading heads of deep golden yellow flowers. 5 feet.

Riverton Beauty—Rich lemon yellow with purplish black cone. August and September. 3 to 4 feet.

Riverton Gem—Old gold changing to wall flower red. August and September. 3 feet.

HELIANTHEMUM—(Sun Rose)—Pretty low growing evergreen plants, covered with flowers of the most brilliant colors. May to July.

HELIANTHUS—(Hardy Perennial Sunflower)—Most effective hardy plant for planting among shrubbery or in clumps in the lawn.

Maximiliana—Latest of all, blooming profusely in October. Golden yellow. 5 to 7 feet.

Multiflorus Fl. Pl.—Double, golden yellow. 4 to 5 feet.

Rigidus Japonicus—One of the most desirable varieties, beginning to bloom in July. Golden yellow with dark center.

Sparsifolius—The best of the summer blooming varieties. Flowers 3 to 4 inches in diameter. 3 to 4 feet high.

HELIOPSIS—A native hardy perennial, like *Helianthus*, but blooms earlier.

Pitcheriana—Flowers golden yellow. 3 to 4 feet.

July to September.

HEUCHERA—(Coral Bells)—*Sanguinea*—Most desirable dwarf compact bushy plant with coral red flowers on stems 2 to 2½ feet. June to August.

HOLLYHOCKS—(Althea)—Stately, majestic, hardy plants which are a necessary part of every garden. 6 to 8 feet.

Double—Bright rose, red, crimson, white, yellow, salmon rose and maroon.

Single—Pink, red, salmon, white and yellow.

HYPERICUM—(St. John's Wort)—A most desirable plant of free and graceful habit, producing long, slender and much branched stems. Flowers 2 to 2½ inches in diameter. Golden yellow.

Clycinum—Low growing, about 1 foot high, sending shoots up from the roots, a good ground cover.

***IBERIS**—(Hardy Candy Tuft)—Dwarf plants, 8 to 12 inches high with evergreen foliage which is completely hidden by dense heads of flowers in spring.

Gibraltarica Hybrid—Color from pinkish lavender to white.

INCARVILLEA—(Hardy Gloxinia)—*Delavayi*—Handsome Acanthus-like foliage and large tubular flowers of a rich pink. 18 to 20 inches.

***LINUM PERENNE**—(Perennial Flax)—Early blue flowers. May to August. Fine for borders of rockery.

LOBELIA CARDINALIS—(Cardinal Flower)—Handsome border plants, preferring a moist loam where they will not suffer from drought. Rich fiery cardinal flowers. Early August until late September. 2 to 2½ ft.

LUPINUS—Effective plants, producing large spikes of flowers.

Alba—White.

Rosea—A combination of light and dark pink.

Moerheimii—Pink and white.

Polyphyllus—Blue.

LYCHNIS—(Lamp Flower)—All of the *Lychnis* are of easy culture, thriving in any kind of soil.

Chalcedonica—(Jerusalem Cross)—Heads of brilliant orange-scarlet. 2 to 3 feet.

Viscaria—Forms a dense tuft of evergreen foliage and in June sends up spikes of handsome double deep red, fragrant flowers. 1 foot.

LYTHRUM—(Loose Strife)—*Salicaria*—A strong growing plant, thriving in any position, producing large spikes of rose colored flowers from July to September. 3 to 4 ft.

MONARDA—(Bergannot)—*Fistulosa*—Showy plants, growing from 2 to 3 feet high, succeeding in any soil. Blooming during July and August. Lavender.

***MYOSOTIS**—(Forget-me-nots)—Splendid for beds, borders or rockeries.

Alpestris—Sky blue.

Winter Everblooming.

Victoria—Dark blue.

PAPAVER ORIENTALIS—(Oriental Poppy)—For brilliant coloring nothing equals them during their time of flowering. May to June.

Goliath—Rich scarlet.

Lacks Koenigen—Dark salmon pink.

Mrs. Baker—Rich wine color.

Oriflamme—Large gorgeous orange scarlet.

Princess Victoria Louise—Delicate salmon pink.

PAPAVER NUDICAULE—(Iceland Poppy)—Plant is of neat habit, forming a tuft of bright green fern-like foliage. Cup shaped flowers on stems, 12 to 18 inches long. Colors from orange to white. Mixture only.

PENTSTEMON—(Beard Tongue)—Hardy plants for the border. Very showy.

Barbatus Torreyi—Bright scarlet flowers June to Aug.

Sensation—Gloxinia-like flowers in variety of colors, including rose, sherry, crimson, purple, etc. Not quite hardy. Can supply in mixture only. 2 to 3 feet.

Shirley Giant—A new variety from England.

PHLOX—Among hardy perennials no class is of more importance. Succeed in any soil and position, and flowering through a long season.

Albion—White with faint aniline red eye. Medium.

Beacon—Brilliant cherry red. Tall.

Baron von Dedem—Deep pink, suffused orange, medium.

Bridesmaid—White, large crimson. Carmine center.

Champs Elysee—Bright rosy magenta.

Coquedicot—Scarlet, crimson eye.

Diadem—Pure white.

Eclairer—Rosy magenta with lighter halo.

Elizabeth Campbell—Bright salmon pink, white eye.

Euroba—White with distinct crimson eye.

Goliath—Bright cerise with a deep eye. 3 feet.

Mrs. Jenkins—White late.

Prof. Virchow—Bright carmine overlaid with orange and scarlet.

Rheinlander—Salmon pink.

- R. P. Struther*—Rosy carmine with claret red eye.
Selma—Pale rose—mauve with claret-rye.
Von Lassburg—White.
Wm. Robinson—Pale rosy salmon. Purplish eye.
- ***PHLOX CANADENSIS**—*Divaricata*—One of our native plants commencing to bloom in April. Lavender flowers on stems 10 inches high.
- ***PHLOX SUBULATA**—(Moss or Mountain Pink)—Moss-like evergreen foliage which during the flowering season is hidden under the masses of bloom. Fine for border or rockeries.
 **Alba*—White.
 **Lilacina*—Light lilac.
 **Rosea*—Bright rose.
- PINKS**—Hardy garden pinks. Old favorites, bearing their sweet clove-scented flowers in the greatest profusion.
Elsie—Bright rose maroon center. Double.
Gertrude—Deep rose. Double.
Snow—White double.
White Reserve—An everblooming pure white.
- NEW PERPETUAL HARDY PINKS**—Perfectly hardy and bloom continuously from early Spring until late Fall. Flowers are much larger than old type.
Harold—Large double pure white.
Jean—White with deep violet-crimson center.
Robert—Delicate shade of old rose.
- DIANTHUS PLUMARIIS**—Single old fashioned pinks. All colors.
- PHYSOTEGIA**—(False Dragon Head)—A beautiful midsummer flowering perennial, not unlike a gigantic heather.
Virginia—Bright but soft pink.
Alba—White.
- PLATYCODON**—(Balloon Flower)—Are closely allied to the campanula and form neat branched bushes. 2 to 2½ feet high. July to October. Blue and white.
- PLUMBAGO LARPENTAE**—Dwarf border and rock plant, covered with deep blue flowers during summer and fall months. 6 to 8 inches.
- POLEMONIUM**—(Jacob Ladder)—*Coeruleum*—Useful border plants succeeding best in a partially shaded position. Deep green, finely cut foliage and spikes of showy blue flowers. 15 to 18 inches. May and June.
- POTENTILLA**—(Cinquofoil)—Charming plants for the border with brilliant single or double red flowers from June to August. Single and double hybrids.
- PYRETHRUM**—(Persian Daisy)—*Hybridum*—Of easy culture in any garden soil where there is good drainage and full exposure to sun.
- PRIMULA VERIS**—(English Primrose)—Are the most beautiful and interesting of early spring flowering plants.
- RANUNCULUS**—(Double Buttercups)—A double flowered form of buttercup. 18 inches high. May and June.
- RUDBECKIA**—(Cone Flower)—*Golden Glow*—Strong robust grower. 6 to 8 feet high. Masses of double golden flowers. Cactus dahlia like flowers. July to September.
Grandiflora Hybrid—Dark orange yellow flowers with purplish black cone 2 to 4 inches in diameter. 3 feet high.
Black Eyed Susans—The old favorite.
- SALVIA**—(Meadow Sage)—*Azurea Grandiflora*—Sky blue flowers during August and September in the greatest profusion. 3 to 4 feet.
Patens—Purest blue known. Late flowering.
- ***SAXIFRAGA**—(Stone Break)—**Megasea*—Handsome, broad, deep green foliage which alone renders them useful while the pretty rose pink flowers which appear very early in the spring make them doubly effective. 1 foot.
 **Pyramidalis*—A very robust grower. Rosettes are large and glaucous. Flowers very numerous in a large pyramidal panicle, white, speckled with crimson.
 **Pride of London*—One of the finest Saxifraga in cultivation. Flowers white, spotted, carmine, on pink stems.
- ***SEDUM**—(Stone Crof)—Useful plants for border and rockery, producing their interesting flowers during late summer and fall.
 **Acre*—(Golden Moss)—Foliage green, flowers bright yellow.
 **Stahl*—Foliage tinted crimson in Autumn.
 **Spectabilis*—One of the prettiest erect growing species. 18 inches high, broad light green foliage and immense heads of showy rose colored flowers.
- SCABIOSA CAUCASICA**—(Blue Bonnett)—A soft and charming shade of lavender. (Frequently white.) Commences to bloom in June, throwing stems 15 to 18 inches high.
Japonica—Lavender. Blue flowers. July to September. 2 feet.
- SOLIDAGO**—(Golden Rod)—*Canadensis*—Medium tall. Spikes of golden yellow flowers. July to October.
- ***SAPONARIA**—(Soap Wort)—*Ocyroides*—Dwarf; fine leaved, with bright little pink flowers in summer. Rockery and edging.
- SHASTA DAISY**—*Alaskan*—Immense, fluffy white blooms with golden yellow center. July to October.
- STACHYS**—(Woolly Wound Wort)—*Lanata*—White woolly leaves and spikes of small purplish flowers about 18 inches high. June and July.
- STATICE**—(Sea Lavender)—*Latifolia*—Large branching flower, stems covered with myriads of small pale purple flowers which retain their color for months if cut and dried properly.
- STOKESIA**—(Cornflower Aster)—*Cyanus*—A beautiful native plant blooming from early June until late September. Flowers are a handsome lavender blue and closely resemble an Aster.
Alba—White.
- SWEET WILLIAM**—(Dianthus Barbatus)—A well known attractive free blooming perennial.
Newport Pink—A lovely salmon and watermelon pink.
Scarlet Beauty—Deep rich scarlet.
 Mixed colors also.
- THALICTRUM**—(Meadow Rue)—Very graceful, pretty flowered plants with finely cut foliage. Great favorites for planting in border.
Adiantifolia—Foliage resembling maidenhair fern. Yellow flowers in July.
Dipterocarpum—Fine fern-like foliage, tall heads of lavender flowers brightened by yellow stamens and anthers.
- TRITOMA**—(Red Hot Poker)—One of the most striking of Autumn flowers with tall spikes of flaming scarlet and yellow flowers.
Pfizerii—Earliest to bloom.
Mirabilis Hybrids—A new introduction from Germany.
- THERMOPSIS**—*Caroliniana*—Showy tall growing plant producing long spikes of yellow lupinus-like flowers in June and July. 3 to 4 feet.
- THYMUS**—(Thyme)—*Variegated*—Small pale green and yellow leaves. Lavender colored flowers. 6 to 8 in. high.
Serpillum—Creeping habit, dark green foliage lilac flowers. 2 to 3 inches high.
- VALERIANA**—*Coccinea*—Showy heads of reddish or pink flowers. 2 feet. June to October.
Alba—White flowers.
Officinalis—(Hardy Garden Heliotrope)—Produces showy heads of rose-tinted white flowers from May to July, with a delicious heliotrope odor.
- VERONICA**—(Speedwell)—*Longifolia Subsessilis*—The showiest and best of all Veronics. Bushy plants. 2 to 3 feet high with long dense spikes of deep blue flowers. July to September.
Virginia Alba—2 to 3 feet high. Flowers white.
Spicata—Long spikes of bright blue flowers. One of the best for border plants.
- **Repens*—Fine for rock work or carpeting. Light blue flowers.
- VIOLA**—(Tufted Pansies)—*Blue Perfection*—Flowers continuously for nearly eight months of the year and while their flowers are not so large as those of the pansy, their flariferousness make them a welcome addition to any garden. Deep purplish blue.
- VIOLETS**
Gov. Herrick—Large dark blue. Very free bloomer.
Princess of Wales—Larger than Gov. Herrick, lighter blue.
Lady Hume Campbell—Double pretty shade of light blue.
- WALLFLOWERS**—The old fragrant favorite in mixed colors, including yellow, brown, etc. Mixture only. The following are new introductions from England:
Eastern Queen—Flowers vary from apricot to cream white.
Primrose—A citron or pale yellow.
Purple Queen—Blossoms of a purplish hue.
Crimson King—Rich deep purplish crimson. 9 in. high.
Vulcan—Enormous flowers of ruby crimson. 9 inches high.

ASTER PLANTS

In season we offer fine large plants of all Standard Varieties
 These are well rooted and sure to give good results.

Our DIAMOND LAWN GRASS makes an Evergreen, Velvety Turf

ANNUAL VINES—Cobaea Scandens, Wild Cucumber, Canary Bird, Morning Glory, Nasturtiums, etc.
 SEEDS AND PLANTS IN SEASON.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG



DELACHI—Violet crimson, very free bloomer.
Each 75c

DORCHESTER—Hydrangea pink. Very late.
Good. Each 75c

DUCHESS D'ORLEANS—Deep pink, center
tinted salmon. Midseason. Each 50c

DUCHESS DE NEMOURS—Cup-shaped, sul-
phur-white blooms. Fine for cut flowers.
Each 65c

EDULIS SUPERBA—Brilliant pink. Best
Decoration Day Paeony. Each 50c

ELEGANTISSIMA—Light, cherry pink. Mid-
season. Good cut flower. Each 50c

FELIX CROUSSE—Brilliant red, flamed
center. Extra firm; very double. Each \$1.00

PAEONIES

Double Herbaceous

THE demand for the Paeony increases more each year, closely rivaling the rose in size, color and fragrance. They make a gorgeous display wherever planted, succeeding in any soil or climate, but thrive best in deep, rich, well drained loam. Paeonies are always free from disease and insects do not bother them. They are hardy, thrifty growers, bloom freely, and nothing will add more to the beauty and attractiveness of the lawn.

We are listing this year some of the newest and most beautiful varieties in existence, secured at large expense from the renowned hybridizers of France and England.

PRICES: F. O. B. Portland; if mailed, postage extra

ALSACE LORRAINE—Creamy-white delicately tinted with Havana brown. Each \$5.00

ALBERT CROUSSE—Immense, full formed bloom; salmon-pink. Each 75c

ALBATRE—Ivory white, one of the very choicest. Each \$1.00

ASA GREY—Pinkish white, with minute dots of lilac. Each \$1.00

BARONESS SCHROEDER—Delicate pink, fading away to white. Each \$2.00

BOULE DE NEIGE—Strong grower, large white blossom, with crimson edge. Each 75c

COURONNE D'OR—Snow-white, but reflecting golden yellow. Each 65c

FESTIVA MAXIMA—Large, early, white. Carmine dots in center. Each 65c

KARL ROSENFELD—A perfect ball of velvety crimson scarlet. Each \$5.00

KELWAY'S OUCEN—Blush pink, a lovely sort. Each \$10.00

L'ECLATANTE—Crimson red, a grand paeony. Each 75c

OFFICINALIS ALBA—Opens pink, soon changing to white. Earliest. Each 65c

OFFICINALIS RUBRA—The early red flowering paeony. Each 65c

PRIMEVERE—The nearest to a yellow paeony. Each \$8.00

QUEEN VICTORIA—White, blush tint. Great Decoration Day flower. Each 50c

WINTER-BLOOMING POT PLANTS

Price 25 cents each. Larger plants, 40 and 60 cents each, postpaid.

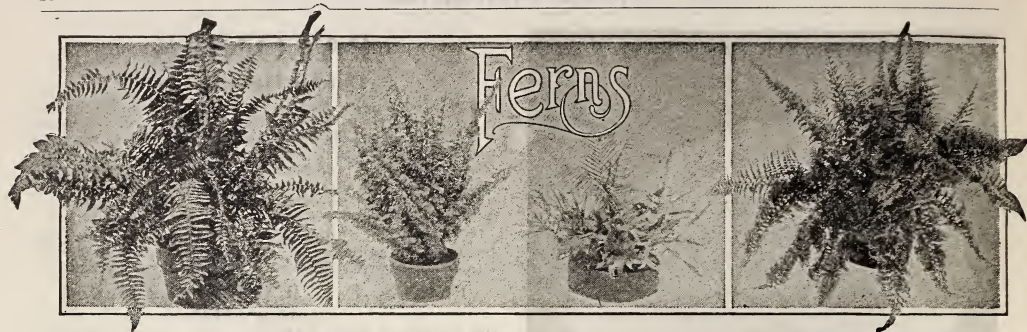
PRIMROSES, NEW GIANT OBCONICA—A lovely perpetual blooming primrose. The crisp green leaves spring up luxuriantly amid which appear, all season through, stout little stalks, each surmounted by a pretty cluster of lavender-pink flowers several inches across. One of the finest winter blooming house plants for a cool room.

PERSIAN CYCLAMEN, GIANT FLOWERED—There is probably no more ornamental flowering plant for greenhouse or parlor culture than the Cyclamen. Circular fleshy leaves of a rich metallic green variously marked with silvery stripes. The flowers appear at the approach of cool weather and continue blooming throughout the winter. Colors, red, pink and white.

REX BEGONIAS—Grown for the beauty of the foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants.

OREGON GIANT PANSIES—Our Giant Plants can not be compared to any other Giant Pansies.
By mail 75c doz.

OREGON GIANT PANSY SEED—We offer a limited amount of this hand selected seed.
Per pkt. 25c; large trade pkt. \$1.00



We offer a splendid list of Ferns, including some of the newest as well as the older varieties.

ORNAMENTAL FERNS

Price, small plants, 25c; postpaid. From 4 in. pots, 75c; 5 in. \$1.50, postpaid.

Specimen plants, \$1.50 to \$3.00, F. O. B. Portland.

BOSTON FERN—This is the original and well known type of "Sword Fern."

TEDDY JUNIOR—New Dwarf Fern. A sport from the Roosevelt Fern. Compact in form, and a rapid grower.

N. ROOSEVELT—Resembles Boston Fern, produces more fronds, making a bushier and a wonderfully decorative window plant.

OSTRICH PLUME FERN—(Nephrolepis Whitmani)—Sport from the Boston Fern.

ASPARAGUS FERNS

20c each postpaid; larger plants, 35c and 50c each, by express.

SPRENGERI—(Emerald Feather)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. Beautiful sprays of lovely green feathery foliage. It makes a charming ornamental plant for the window or conservatory in Winter.

PLUMOSA—(Japanese Lace Fern)—A finer and more delicate plant than the Sprengeri, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green feathery foliage, as fine as the finest silk or lace. No finer house plant than this.

SPECIAL—Six Fine Table Ferns for \$1.25

ADIANTUM CUNATEUM—(Maiden Hair Fern)—A very beautiful and graceful fern.

ASPIDIUM TSUSSIMENSE—Valuable for fern dishes; of dwarf graceful habit.

PTERIS ARGYREA—(The Silver Fern).

CYRTOMIUM FALCATUM—(The Holly leaved fern)—Hardy, dark green foliage.

PTERIS CRETICA ALBO-LINEATA—A pretty and useful variegated variety

PTERIS WILSONI—A very beautiful sort for fern dishes.

A HARDY FERN BED FOR ONLY \$6.00

Assortment of ferns for general garden and foundation planting: } \$6.00 { Half of collection \$3.50
12 Ostrich Plume Ferns, 4 Osmunda Claytoniana, 4 Lady Ferns, Postpaid

We have contracted these ferns from Northern Minnesota, where they are grown, and the plants will be shipped direct from ferneries. Hardy outdoor Ferns grow best in the shade or half shade and will do well in the border. They are just the thing for that shady place around your house where most flowers will not do so well.



Foundation Planting of Hardy Ferns



DIAMOND QUALITY ROSES are large, sturdy, two-year-old, field-grown roses that will give you splendid flowers the first season. They are true to name and our list includes the best of the well known popular varieties, the most meritorious of recent novelties and the Gold Medal roses of famous European growers.


Planting and Care

In our favored section, roses attain a perfection seldom equaled, but you cannot expect them to thrive and bloom unless you care for them. We offer the following simple suggestions:

SOIL—Any good, well-drained garden soil, enriched with fertilizer, will give excellent results. If heavy clay soil mulch well with burnt earth and manure, rotted sod or leaf mold.

FERTILIZER—Our odorless fertilizer, Bone Meal, Tankage of Blood, will give excellent results and should always be applied after the plants start their growth.

WATERING—When setting out, water regularly until roots are well set; then about once a week unless the ground is very dry; in such cases more often. Do not get the foliage wet after a hot day. This causes mildew.

 We offer a splendid assortment of popular roses and the best of the new ones, and can secure any variety in commerce, TRUE to NAME.

FINALLY—Keep the surface well worked around the plants. This is as necessary as water or fertilizer. When planting cut back freely, and the bush will recover quickly.

SHIPPING—We always send all our two-year-old rose bushes charges collect by express or freight, packing them so they will carry safely even though they should be on the road for two weeks or more.

If necessary, we can send small two-year-old bushes by mail at an additional cost to cover postage, but in such cases we always prune the tops and roots ready for planting.

Rare New Garden and Exhibition Roses

Fine 2-year Dormant Plants.

CLEVELAND—(H. T.)—Deep coppery yellow at base of petals, flushed reddish copper. Very large, beautifully formed and good in every way. A thoroughly fine variety.

Each \$1.00

COLUMBIA—(H. T.)—One of the greatest of recent introductions. The color is a true pink, deepening as it opens to a glowing pink. A striking peculiarity of this rose is that the shades all deepen as the rose opens. Single buds, long stems, splendid for cutting.

Each \$1.00

GOLDEN EMBLEM—A grand new Irish rose of ideal habit of growth with holly-like glossy green foliage, each stem bearing a glorious golden yellow flower of the finest form. The peer of all yellow roses.

Each \$1.50

GOLDEN OPHELIA—Rich golden-yellow flowers in greatest freedom on stout wirey stems clothed with glossy dark green foliage. Especially well adapted for cutting and personal adornment.

Each \$1.50

GOLDEN SPRAY—A rampant growing ever-blooming rose, with long arching canes forming attractive sprays of golden yellow buds, opening into large single flowers. Each \$1.50

K OF K—(H. T.)—New. Intensest scarlet known. Semi-single with huge petals. Free and continuous bloomer. Sweet scented.

Each \$1.00

LOS ANGELES—(H. T.)—Flame pink toned with coral and shaded gold at base of petals. Beautifully formed, fragrant, vigorous and very free blooming. Nothing better.

Each 90c

MISS LOLITA ARMOUR—A magnificent new rose produced by the same hybridizer who gave us Los Angeles, one of the most popular novelties of the time. Color chrome yellow at base of petals, shaded to coppery orange. Flowers very large, of finest form, on stout canes.

Each \$1.50

MRS. S. K. RINDGE—A sister variety of Lolita Armour. Buds very long and pointed, rich golden yellow outside of petals stained at base with Indian red.

Each \$2.00

WILLIAM F. DREER—Soft shell pink, base of petals rich golden yellow. The same parentage as Los Angeles and beautiful in development from opening buds to expanded flowers. We are quite sure that all who try this variety will be pleased with it. Each \$2.00

BEAUTIFUL ROSES OF RECENT INTRODUCTION

The following are the recent novelties and Gold Medal roses that have proven their merit and are now generally in great demand.

Fine 2-year Field Grown Dormant Plants, 90 cents each

COUNTESS CLANWILLIAM—(H. T.)—A distinct and charming rose, producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers. Of strong, vigorous habit.

CRIMSON EMBLEM—A superb new Irish rose of a rich and glorious crimson color heavily shaded maroon. Buds and flowers of superb form, of fine size and produced on fine long stems, admirably adapted for cutting. Wonderful mildew-proof foliage.

GORGEOUS—Strong, vigorous growing, with handsome olive-green foliage. Flowers very large, finely formed, produced freely on stout canes. Color deep orange-yellow, heavily veined and reddish copper.

HOOSIER BEAUTY—Crimson scarlet with darker shadings, velvety texture. Bud long and pointed, deliciously fragrant.

LADY HILLINGDON—(T.)—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting. Foliage luxuriant. A fine forcing or garden rose, excellent for cutting.

LILLIAN MOORE—(H. T.)—Flowers large and full; pure Indian yellow with slightly deeper center. Buds long and pointed.

LOUISE CATHERINE BRESLAU—(H. T.)—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange.

MAD. EDOUARD HERRIOTT—The famous winner of the *Daily Mail* Prize. The color being terra cotta bronze and geranium red, a new combination of colors in rose.

MADAME MELANIE SOUPERT—(H. T.)—Splendid new orange yellow shaded pink; beautiful, long-pointed buds. Best of its color.

MAD. RAVARY—(H. T.)—Clear orange yellow. Long pointed buds; flowers of fine form.

MARQUIS DE SINETY—(H. T.)—Deep saffron yellow, flushed reddish copper. Flower large, beautiful dark foliage.

MELODY—(H. T.)—Intense deep saffron yellow with primrose edges. Blooms medium size, very fragrant and freely produced.

MRS. AARON WARD—(T.)—A deep golden orange color shading out to lemon or creamy yellow at the edge of the petals. One of the most beautiful roses in existence.

MRS. ALFRED TATE—(H. T.)—Coppery red shaded fawn. Buds are about the longest we have ever seen on an outdoor rose. Will easily rank with the very best.

MARGARET DICKSON HAMILL—Delicate straw color, its shell-like petals flushed at the edges on the reverse side with delicate carmine-rose. Strong in growth, free blooming and exquisitely fragrant. Bronzy green foliage on deep crimson leaf-stalks. Very distinct and a gem among new roses.

MRS. CHARLES RUSSELL—(H. T.)—"American Beauty" can compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

OLD GOLD—(H. T.)—Medium sized flowers of a vivid reddish orange color with coppery red and coppery apricot shadings. A splendid garden rose.

OPHELIA—(H. T.)—Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

RAYON D'OR—(Pern)—Long pointed buds of deep orange-cadmium smeared claret opening to a rich sunflower yellow. Foliage is deep, glossy green; and free from mildew.

RED LETTER DAY—Brilliant glowing crimson scarlet, opening into medium-sized cactus-shaped flower of curious formation. One of the freest blooming roses extant.

SOUV. DE STELLA GRAY—Long pointed buds of rich golden yellow, dashed with crimson at base of petals. Flowers produced on long stout stems. A beautiful fancy exhibition rose, shown in fine form at the Portland Rose Show on several occasions.

SUNBURST—(H. T.)—The finest of all yellow roses with long pointed buds. Color a superb cadmium yellow with orange yellow center. The foliage is a handsome bronze green.

TIPPERARY—Beautifully formed buds of a bright canary yellow, produced with great freedom. A fine new Irish rose with all the requisites of a good garden variety.

PORTLAND SEED COMPANY'S DIAMOND COLLECTION of 6 Roses for \$4.50—Los Angeles, K. of K., Margaret Dickson Hamill, Sunburst, Constance, and Cleveland.

PORTLAND SEED COMPANY'S HARDY GARDEN COLLECTION of 10 Roses for \$5.00—Frau Karl Druschki, Mad. Caroline Testout, American Beauty, Ulrich Brunner, Hugh Dickson, La France, Mrs. Aaron Ward, J. B. Clarke, Papa Gontier, and Mrs. John Lang.

DIAMOND PLANT FOOD

For Ferns, Palms and House Plants. Clean, Odorless, Highly Concentrated

Produces luxuriant foliage—brilliant and lasting flowers. A 40-cent package will feed a dozen large house plants a whole year.

Price, ½ lb. pkg. 25c—postpaid 35c; 1 lb. pkg. 40c—postpaid 50c.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

GRAND GARDEN ROSES

In this list you will find many famous prize winners and some of the most beautiful and popular roses
Two-year-old Field Grown Plants, 75c each



ADMIRAL WARD—(H. T.)—A fine bedding variety of vigorous growth and erect branching habit. Spherical blackish red bud opening to large, full, globular flowers of crimson red with shadings of fiery red and velvety purple.

BETTY—(H. T.)—Beautiful coppery rose color, overspread with golden yellow. Fragrant.

BRITISH QUEEN—(H. T.)—Pure white, large, full flowers, opening freely. One of the best white roses for bedding and cutting.

CHATEAU DES CLOS VOUGEAT—Deep, velvety crimson shaded with blackish maroon. The nearest approach to a black rose. As if cut from so much velvet, the most wonderful rose in color and texture. A true ever-blooming variety.

DEAN HOLE—(H. T.)—Beautiful silvery carmine, shaded bright golden pink. Free bloomer.

DOROTHY PAGE ROBERTS—(H. T.)—Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.

EDWARD MAWLEY—(H. T.)—Long pointed buds of deep, rich, velvety crimson. Growth is upright and branching with handsome foliage. One of the finest red roses.

GEORGE DICKSON—Very large, full and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture, reverse of petals heavily veined with crimson maroon. A magnificent rose, invaluable for exhibition.

HADLEY—A fine American pedigreed rose producing flowers of elegant form and substance. Color rich crimson scarlet shaded maroon. A glorious rose.

HARRY KIRK—(H. T.)—Deep sulphur-yellow passing to a lighter shade at the edge of petals. Robust growth; free branching habit.

KILLARNEY—The new Irish Beauty. Color an exquisite shade of deep shell pink lightened with silvery pink. The base of the petals is a soft silvery white relieved with enough yellow to make it more attractive. The buds are exceptionally long and beautifully formed.

LADY ROBERTS—Rich apricot yellow, base of petals coppery red shaded with orange. Nice long sharply pointed buds developing into well formed open flower. A pure bred tea-rose of great merit.

LADY ASHTOWN—(H. T.)—One of the finest pinks of a rich, deep, silvery tone; flowers large.

LYON—(Pernetiana)—Beautiful shrimp pink with salmon and chrome yellow shadings. Large coral red buds, beautifully formed. A continuous and free bloomer.

MILDRED GRANT—(H. T.)—Silvery white flushed delicate pink. By far the largest variety in the H. T. class, and easily the largest rose of good form. In spite of their great size and weight, the flowers are borne perfectly erect, as stems are amply stiff and strong. There is nothing coarse about it as with some large kinds.

PAPA GONTIER—(T.)—A vivid cherry red color, shaded yellow, reverse of petals crimson.

PRESIDENT W. R. SMITH—A superb new rose of American origin, producing elegant-shaped buds and open flowers. Of an exquisite silvery pink color and sweetly perfumed. Large handsome leathery foliage, on stout thornless canes, each surmounted by a handsome flower. A grand variety for the garden.

RHEA REID—(H. T.)—Flowers large and double; rich dark velvety red; a good red garden rose.

RICHMOND—(H. T.)—Vivid red buds and flowers of the most perfect and desirable form.

Our DIAMOND LAWN GRASS makes an Evergreen, Velvety Turf

FLORISTS' SUPPLIES *We carry a complete line of high-grade stocks at prices so reasonable that you cannot afford to "Go East" for them. Write us your requirements or send in a trial order.*

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

FAVORITE GARDEN AND EXHIBITION ROSES

A choice collection of the best standard varieties, "tried and true," sure to give satisfaction.

Two-year field-grown plants, 60c.

FLORENCE PEMBERTON—(H. T.)—Creamy white, suffused pink. Very large and full.

GENERAL McARTHUR—(H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

GRUS AN TEPLITZ or VIRGINIA R. COXE—(H. T.)—Color fiery crimson, with a dark velvety sheen, very fragrant. Free blooming.

J. B. CLARKE—New Irish variety of great merit either for garden decoration or for cut flowers. The color is bright crimson shaded maroon; petals large, well-shaped and of immense substance; flowers very full and perfectly formed. Growth vigorous and tree-branching habit; flowering freely and continuously from early Summer until late Autumn.

JOSEPH HILL—(H. T.)—Salmon pink shaded yellow. Outside petals yellow suffused copper.

JULIET—(H. B.)—A wonderful combination of old gold on the outside of petals and a rich rosy red on the inside. Flowers large, full and delightfully scented.

KAISERIN AUG. VICTORIA—(H. T.)—Elegant, large pointed buds; large, full double flowers; color delicate creamy white; fragrant.

LA FRANCE—(H. T.)—A silvery rose, changing to pink. A general favorite. Sweetest of all roses.

MAMAN COCHET—(T.)—Color is a deep rosy pink, the inner side of the petals silvery rose.

WHITE MAMAN COCHET—(T.)—Immense size, exquisitely fragrant; long, pointed buds.

WINNIE DAVIS—Fine apricot pink shading to the flesh tint at base of petals. A grand hardy garden rose.

Moss Roses

MOSS ROSES—Red, Pink and White.
Each 60c

Portland Seed Company's Choice Collection of 12 Roses

for \$7.00—We can recommend this collection for general planting to the amateur who wishes limited number of varieties, and who is still desirous of extra choice flowers.

American Beauty, Mad. Caroline Testout, Dean Hole, Frau. Karl Druschki, Hoosier Beauty, Juliet, Irish Elegance, Mrs. Alfred Tate, Gruss An Teplitz, Baroness Rothschild, Mildred Grant, and Columbia.

Miscellaneous Ornamentals

BAMBOO—Ornamental plant, with almost evergreen foliage. Strong clumps, 3 to 6 feet.

Each \$1.00 to \$2.00

PAMPAS GRASS—Ornamental grass, easily grown, producing long, pointed leaves and majestic, silvery white plumes; 6 to 8 ft. high.
Strong roots, each 75c



Ophelia

Baby Rambler or Dwarf Polyanthus Roses

Two-year-old plants, not prepaid, 75c each
BABY RAMBLER—(Dwarf Bush Type)—Not over 18 inches high, producing large trusses of light crimson flowers; clean dark green foliage.
CECILE BRUNNER—Bright, rose, yellowish in center; very sweet; dwarf polyanthus.

PINK BABY RAMBLER—(Mrs. W. Cutbush)—Clusters of pretty double bright pink flowers; freely produced in panicles; always in bloom.

FINEST HARDY PERPETUAL ROSES

FOR Eastern Oregon and Washington or in sections where the winters are severe, this collection will thrive and bloom freely where the Tea and Hybrid Tea roses would not prove satisfactory.

Two-year-old Field Grown Plants 60c each, unless otherwise noted

AMERICAN BEAUTY—(H. P.)—One of the largest, sweetest and best; rich, rosy crimson, shaded and veined in a most charming manner.
Each 50c

BARONESS ROTHSCHILD—(H. P.)—Flowers of immense size; color bright rosy pink.
Each 50c

CONRAD F. MEYER—A most valuable addition to the list of hardy free-blooming roses. The color is a beautiful pure silvery pink.
Each 50c

DUCHESS OF WELLINGTON—(H. P.)—Intense saffron yellow stained with rich crimson which as the flower develops, become deep coppery saffron yellow. Delightfully fragrant.
Each 75c

FRAU KARL DRUSCHKI—(H. P.)—The white American Beauty. Makes splendid buds and immense flowers; perfectly double.

GENERAL JACQUEMINOT—(H. P.)—Bright shining crimson; very rich and velvety.
Each 50c

HUGH DICKSON—(H. P.)—Glowing crimson-shaded scarlet. A strong grower and perpetual bloomer (should be cut back freely).

MADAME CAROLINE TESTOUT—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively.
Each 50c



Frau Karl Druschki

MRS. JOHN LANG—(H. P.)—A soft, delicate pink, with satiny tinge; very free flowering.

PAUL NEYRON—(H. P.)—Deep, shining rose, blooms freely, the largest variety in existence.

ULRICH BRUNNER—(H. P.)—Extra large, bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet.
Each 50c

The Popular Rambler Roses

The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season.

Two-year-old plants 65c each

FLOWER OF FAIRFIELD—Brilliant crimson, base of petals white; a splendid grower and a great improvement over the old type.

DOROTHY PERKINS—Polyanthus type; a beautiful bright shell-pink; large double flowers.

RED DOROTHY PERKINS—Fine crimson rambler; glossy green foliage; never troubled with mildew. Flowers very double.

TAUSENDSCHON—A lovely shade of soft pink, free and vigorous; splendid foliage.

Single Roses

Two-year only

AUSTRIAN COPPER—(A. B.)—A beautiful single rose of bright reddish copper. **Each 50c**

IRISH ELEGANCE—(S.)—Large, single, golden bronze flowers of great beauty, free and constant bloomer, with deep bronze foliage. **Each 75c**

IRISH FIREFLAME—(S.)—Deep orange splashed crimson, changing to fiery orange crimson; buds hold shape long time. **Each 75c**



Single Roses

CLIMBING AND PILLAR ROSES

Two-year-old bushes, field-grown, 75c each (except as noted)

AMERICAN BEAUTY—Rich crimson color; delightful fragrance; very free bloomer.

AMERICAN PILLAR—Without question, the finest single flowered Climbing Rose in cultivation. Color clear bright rosy pink.

CECIL BRUNNER—Clusters of pretty pink flowers, especially beautiful in bud.

DR. VAN FLEET—Flowers large with high built center and petals beautifully undulated and cupped. Color the most beautiful shade of shell pink ever seen in a rose. A rank climber, immune from mildew.

FRAU KARL DRUSCHKI—Identical to bush type; good pillar rose.

GLOIRE DE DIJON—An old favorite, noted for its free flowering, its delicate tea scent, and its shades of color, being a blending of amber.

GENERAL McARTHUR—(H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

HOOSIER BEAUTY—Identical with that superb new bush variety Hoosier Beauty, except that it is a rampant climber. Crimson flowers shaded to black.

CLIMBING KAISERIN A. VICTORIA—Strong rapid growing climbing form of the popular rose. Fine large ivory white flowers. One of our best climbers.

CLIMBING LADY ASHTOWN—Strong, vigorous climbing sport of this well-known valuable rose.

LA FRANCE—Identical with the well known La France; vigorous climber

MAD. CAROLINE TESTOUT—Immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

MARECHAL NEIL—A magnificent deep golden yellow variety; so famous as to need no description; finest of its color. **Each \$1.00**

CLIMBING METEOR—Rapid grower; rich, dark, velvety crimson flowers.

PAPA GONTIER—(T.)—A "Native Sport" from this favorite variety.

PINK CHEROKEE—Lovely single blossoms, 3 to 5 inches in diameter, saucer shaped and of a beautiful shade of light pink.

SHOWER OF GOLD—A beautiful new climber of the Wichuriana type. It is of very vigorous growth, with dense glossy green foliage. Produces masses of golden yellow flowers.

SILVER MOON—Similar in habit of growth to Dr. Van Fleet, but with large saucer-like single flowers of silvery white color. Flowers of wonderful substance on long stems.

SUNBURST—A splendid climber of the same beauty and freedom of bloom as the bush form of this popular rose. **Each \$1.00**

WILLIAM A. RICHARDSON—Color, rich coppery yellow, flushed with carmine; a very beautiful variety, having few equals.

ALPHABETICAL LIST OF ROSES

	Price	Page		Price	Page		Price	Page
Admiral Ward	\$0.75	21	Gorgeous	\$0.90	20	Melody	\$0.90	20
American Beauty	.50	23	Grus and Teplitz	.60	22	Miss Lolita Armour	1.50	19
Austrian Copper	.50	23	Hadley	.75	21	Moss Roses	.60	22
Baby Rambler	.75	22	Harry Kirk	.75	21	Mildred Grant	.75	21
Baroness Ritschchild	.50	23	Hoosier Beauty	.90	20	Mrs. Aaron Ward	.90	20
Betty	.75	21	Hugh Dickson	.60	23	Mrs. Alfred Tate	.90	20
British Queen	.75	21	Irish Elegance	.75	23	Mrs. Charles Russell	.90	20
Cecil Brunner	.75	22	Irish Fireflame	.75	23	Mrs. John Laing	.60	23
Chateau Des Clos Vougeat	.75	21	J. B. Clark	.60	22	Mrs. S. K. Rindge	2.00	19
Climbers		24	Joseph Hill	.60	22	Old Gold	.90	20
Cleveland	1.00	19	Juliet	.60	22	Ophelia	.90	20
Columbia	1.00	19	Kaiserin Aug. Victoria	.60	22	Papa Gontier	.75	21
Conrad F. Meyer	.50	23	Killarney	.75	21	Paul Neyron	.60	23
Constance	1.00	20	K of K	1.00	19	Pink Baby Rambler	.75	22
Countess Clanwilliam	.90	20	Lady Ashtown	.75	21	Pink Cherokee	.75	24
Crimson Emblem	.90	20	Lady Hillingdon	.90	20	President W. R. Smith	.75	21
Dean Hole	.75	21	Lady Roberts	.75	21	Rayon D'Or	.90	20
Dorothy Page Roberts	.75	21	La France	.60	22	Red Dorothy Perkins	.65	23
Dorothy Perkins	.65	23	Lillian Moore	.90	20	Red Letter Day	.90	20
Duchess of Wellington	.75	23	Los Angeles	1.00	19	Rhea Reid	.75	21
Edward Mawley	.75	21	Louise Catherine Breslau	.90	20	Richmond	.75	21
Florence Pemberton	.60	22	Lyon	.75	21	Souv. De Stella Gray	.90	20
Flower of Fairfield	.65	23	Mad. Melanie Soupert	.90	20	Sunburst	.90	20
Frau Karl Druschki	.60	23	Mad. Ravary	.90	20	Tausendschon	.65	23
General Jacqueminot	.50	23	Mad. Caroline Testout	.50	23	Tipperary	.90	20
General McArthur	.60	22	Mad. Edouard Herriott	.90	20	Ulrich Brunner	.50	23
George Dickson	.75	21	Maman Cochet	.60	22	White Maman Cochet	.60	22
Golden Emblem	1.50	19	Marechal Neil	1.00	24	William F. Dreer	2.00	19
Golden Ophelia	1.50	19	Marg. Dickson Hamill	.90	20	Winnie Davis	.60	22
Golden Spray	1.50	19	Marquis De Sinety	.90	20			

 For **HARDY FERNS** Suitable for **SHADY BORDERS** and **ROCK WORK**, see Our Special Collection on Page 18

For *Gladioli, Dahlias, Cannas and Spring Flowering Bulbs* see our General Catalog. Ready in January.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS. PAGE ONE OF CATALOG

CURRENT PRICE LIST

PORTLAND SEED COMPANY

PORTLAND, OREGON



RETAIL ONLY

Prices F. O. B. Portland—Subject to Change Without Notice

PORTLAND, ORE., OCT 25, 1924.

Red Clover, Choice.....	10 lbs., \$3.30	100 lbs., \$30.00
Red Clover, Fancy.....	10 lbs., 3.40	100 lbs., 31.00
Red Clover, Diamond Fancy.....	10 lbs., 3.50	100 lbs., 32.00
Mammoth Clover.....	10 lbs., 3.50	100 lbs., 32.00
Alsike Clover, Fancy.....	10 lbs., 2.50	100 lbs., 22.00
Alsike Clover, Diamond Fancy.....	10 lbs., 2.60	100 lbs., 23.00
Alsike and White Mixed.....	10 lbs., 3.10	100 lbs., 28.00
White Clover, Choice.....	10 lbs., 7.00	100 lbs., 65.00
White Clover, Fancy.....	10 lbs., 7.50	100 lbs., 70.00
White Clover, Diamond Fancy.....	10 lbs., 9.00	100 lbs., 85.00
Sweet Clover, Hubam, Annual.....	10 lbs., 1.50	100 lbs., 12.00
Sweet Clover, Yellow Blossom, Annual.....	10 lbs., 2.50	100 lbs., 23.00
Sweet Clover, White Blossom, Hulled.....	10 lbs., 3.00	100 lbs., 25.00
Sweet Clover, White Blossom, Scarified.....	10 lbs., 2.00	100 lbs., 16.00
Crimson Clover.....	10 lbs., 2.80	100 lbs., 26.00
Alfalfa, Fancy.....	10 lbs., 2.90	100 lbs., 27.00
Alfalfa, Diamond Fancy.....	10 lbs., 2.90	100 lbs., 27.00
Alfalfa, Dry Land.....	10 lbs., 5.50	100 lbs., 52.00
Alfalfa, Grimm.....	10 lbs., 1.25	100 lbs., 11.00
Timothy, Fancy.....	10 lbs., 2.80	100 lbs., 26.00
Orchard Grass, Fancy.....	10 lbs., 1.70	100 lbs., 16.50
English Rye Grass, Western.....	10 lbs., 1.80	100 lbs., 17.50
English Rye Grass, Imported.....	10 lbs., 1.80	100 lbs., 17.50
Italian Rye Grass, Imported.....	10 lbs., 2.30	100 lbs., 20.00
Red Top, Unhulled.....	10 lbs., 3.00	100 lbs., 27.00
Red Top, Hulled, Fancy.....	10 lbs., 3.10	100 lbs., 28.00
Red Top, Hulled, Diamond Fancy.....	10 lbs., .65	100 lbs., 4.50
Vetches, Common No. 1.....	10 lbs., 1.75	100 lbs., 14.00
Vetches, Purple.....	10 lbs., 1.75	100 lbs., 14.00
Vetches, Sand or Hairy.....	10 lbs., 1.00	100 lbs., 6.00
Vetches, Hungarian.....	10 lbs., 1.30	100 lbs., 12.00
Rape, Dwarf Essex.....	10 lbs., .50	100 lbs., 3.00
Rye, Fall.....	10 lbs., .50	100 lbs., 3.25
Rye, Rosen.....	10 lbs., .50	100 lbs., 3.00
Oats, White Seed.....	10 lbs., .60	100 lbs., 3.00
Oats, Gray.....	10 lbs., .50	100 lbs., 3.65
Oats, Climax and Eclipse.....	10 lbs., .50	100 lbs., 2.50
Cheat.....	10 lbs., .60	100 lbs., 4.25
Barley, Black, Hulless.....	10 lbs., .60	100 lbs., 4.25
Barley, White, Hulless.....	10 lbs., .45	100 lbs., 3.00
Barley, Common.....	25 lbs., 1.00	100 lbs., 3.60
Wheat,		

(OVER)

CURRENT PRICE LIST—Continued

Scratch Food, Diamond.....	25 lbs., .90	100 lbs., 3 25
Egg Food, Diamond.....	25 lbs., .90	100 lbs., 3.00
Chick Food, Diamond.....	25 lbs., 1.00	100 lbs., 3 50
Chick Growing Food Grain.....	25 lbs., 1.00	100 lbs., 3 20
Baby Chick Mash.....	25 lbs., 1.00	100 lbs., 3 25
Developing Mash.....	25 lbs., 1.00	100 lbs., 3 30
Meat Scraps, Diamond.....	25 lbs., 1.35	100 lbs., 4.50
Oyster Shell, Oregon.....	25 lbs., .50	100 lbs., 1 60
Corn, Cracked.....		100 lbs., 3.20
Corn, Whole.....		100 lbs., 3.10
Wheat, Feed.....		100 lbs., 2.85
Mil! Run, 100-lb. sacks.....		2.10
Shorts, 80-lb. sacks.....		1.75
Vegetable Fertilizer.....	100 lbs.,	2.60
Fruit & Onion ".....	100 lbs.,	2.85
Sheep Guano.....	100 lbs.,	1.50

NOTICE

Add postage if wanted sent by mail. On freight shipments add freight charges if your station has no agent, as shipment will have to be prepaid.

These Are Prices Not Quoted in the Catalog

We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds we sell out and will be in no way responsible for the crop. Purity and germination given for information only and without guarantee.



SPECIALS



EATON WHEAT—A white beardless, winter wheat. This wheat has been tried out by the Oregon Agricultural College, and found to be a heavy yielder, and highly recommended for growing in Western Oregon and Washington.
\$3.25 per hundred for choice, re-cleaned seed.

HUNGARIAN VETCH—Hungarian Vetch, after having been grown at the Oregon Experiment Station for the past fifteen years and by cooperating farmers for the past four years, is undoubtedly destined to become a very important annual leguminous farm crop for this state, especially the western part.

Aphis Resistance—Its aphis resistance is probably the largest single factor toward making it a generally grown crop in Western Oregon. During years when aphids practically destroyed many other farm crops this vetch was injured comparatively little and produced practically normal crops of forage and seed.

Hungarian Vetch is seldom attacked by diseases or insect pests. At no time since the crop has been grown here has any loss incurred due to disease or insects.

Experience has shown that Hungarian is a heavier yielder in both hay and seed than any other vetches grown here, under similar conditions. \$6.00 per 100 lbs., F. O. B. Portland.

TANGIER PEAS—Used for soiling and feeding, same as vetch. Produces four to six tons hay or 15 to 25 tons silage per acre. Grows 3 to 6½ feet high. When sown alone use 90-lbs. per acre, but we recommend half rye or wheat as a nurse crop. Sow Fall or Early Spring.

* * * OUR HOLLAND—DUTCH BULBS HAVE ARRIVED * * *

Department	Zone	Do not write in this space	Do not write in this space
General		Order No.	
Seed			
Bee			
Nursery	O. K.	Card Made	
Potatoes		By	
Florist			

PORTLAND SEED CO., Portland, Oregon

Please read "How To Order" (Page 1) Before ordering, and save all misunderstandings. **WRITE YOUR ADDRESS PLAINLY** **DON'T FORGET TO SIGN YOUR NAME** In The Blanks Below; also keep your order separate from other matters you may wish to write about. This enables us to **Fill Orders Rapidly** and correctly, and answers to your inquiries will not be delayed or overlooked.

Name		Amount Purchased
Post Office	R. F. D. No.	\$ cts.
Station		Parcel Post, Express and Freight Station, without an Agent must be prepaid.
County	State	Add \$ cts.
Ship by	State if wanted by Mail, Express or Steamer	Amount Enclosed
Date	192	\$ cts.

Quantity	Article	\$	c
Over	Forward		

Note.—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, trees or plants, sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.—Portland Seed Company

[illegible]



ORNAMENTAL CLIMBING VINES

Clematis

Clematis is one of the most beautiful and useful climbers. Their magnificent flowers, borne in great profusion in beautiful shades of lavenders, purples, reds and white, make them especially attractive. Clematis requires a rich loamy soil, but manure should not touch the roots. Cut out the weak and surplus branches in the spring, and tie the vine up well to its support.

RAMONA—Beautiful lavender, best of its color.

VILLE DE LYON—Red.

HENRYI—Fine, large, creamy white flowers; a strong grower and very hardy.

JACKMANII—Intense violet purple, with a rich velvety appearance; distinctly veined.

The above large plants, each \$1.00, postpaid

CLEMATIS PANICULATA—A rapid and vigorous grower; it produces sheets of medium-sized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises or fences. Choice plants, 50c; Extra fine, 60c.

Honeysuckle

BELGIAN—Flowers yellow, blotched with red above; blooms all summer, fragrant.

HALL'S JAPANESE—Almost evergreen, very popular; white turning to yellow. Each 50c

Kudzu

KUDZU VINE — (*Pueraria Thunbergiana*) — Large foliage and dense shade, growing fifty feet in one season. Flowers plentiful in August, rosy-purple, pea-shaped; in small racemes. Each 50c

ANNUAL VINES—*Cobaea Scandens*, Wild Cucumber, Canary Bird, Morning Glory, Nasturtiums, etc., **SEEDS AND PLANTS IN SEASON.**

CINNAMON VINES are the most desirable, easiest grown climbers in the world. They are from China—the land of wonders. Their abundant blossoms perfume the air for a long distance. No words can describe their delicious fragrance. Perfectly hardy—thriving in all soils, in sun or shade, wet or dry. No insects, blight or disease of any kind ever troubles them, no winter harms. Once planted they will grow a lifetime.

Each 25c, five for \$1.00, postpaid

Diamond Plant Food For Ferns, Palms and House Plants. Clean, Odorless, Highly Concentrated. A complete, powerful fertilizer, wonderfully invigorating to all plants, producing luxuriant foliage and larger and more brilliant flowers. A 40c package will feed a dozen large plants a whole year. Special instructions on each package.—Postpaid 50c.

Prices on this page, unless otherwise stated, F. O. B. Portland; if mailed, postage extra.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

Euonymus

RADICANS—A most beautiful evergreen vine of vigorous growth and perfect hardiness. Clings to stone or brick. Most valuable introduction of recent years and takes the place of ivy. Each 60c

Wistaria

W. SINENSIS — (Chinese Wistaria) — Grows 15 to 20 feet in a season; has long, pendulous clusters of pale blue flowers in May and June and in Autumn. Choice plants, 75c to \$1.50

WISTARIA MULTIJUGA—(Pink)—Two-year grafted. Each \$2.50

WISTARIA SINENSIS—(White)—Three-year-old grafted. Each \$3.00

Dutchman's Pipe

ARISTOLOCHIA SIPHO—A handsome bright green luxuriant vine, having large foliage and brownish, pipe-shaped flowers. A strong rapid grower. Strong plants, each \$1.00

Ampelopsis

VEITCHI — "Boston Ivy" — Leaves glossy green, coloring bronze in Fall; flowers small; berries deep blue; clings firmly to smooth walls.

QUINQUEFOLIA—"Virginia Creeper"—Common American Ivy.

ENGELMANNI—Similar to Quinquifolia, but leaves slightly smaller, and will cling to walls without any support. Very hardy and attractive. The improved Virginia Creeper.

Strong 2-year roots, 50c.

English Ivy

Large, thick, shining, leathery leaves; evergreen. Plant in sheltered position. Each 25c

Trumpet Vine

BIGNONIA RADICANS—(Trumpet Vine)—Strong climber; deciduous; flowers orange scarlet. Blooms midsummer. Each 50c



Deliveries can be made from November until May, but orders are accepted at any time for delivery in season.

WE use every precaution to deliver healthy, vigorous stock, but the measure of your success will depend upon the planting and care given, as careless or ignorant handling kills thousands of fine trees and plants every season. Avoid unnecessary exposure of roots to the air. In the case of evergreens that are "balled," **do not remove the burlap.** Plant as received, only cut the string around the top, then **loosen the burlap after the tree is set.** If you cannot plant immediately on receipt, **always "heel" in the trees so their roots may be in contact with good soil.**

Leaving the ground loose after planting has caused tremendous losses that are generally and unjustly blamed to the nurseryman. Another cause of great loss is the wind working the newly set trees loose from the soil. This kills them. Always stake newly set trees if in a windy situation. After trees are set, make a plan of the grounds, marking the different varieties, then remove the wire labels, as they may damage the growing limb.

An hour's exposure of roots to wind or sun may kill any tree; this is especially true of evergreens. In planting cut off the bruised or broken roots with a sharp knife.

If the soil is good and properly prepared, only a hole large enough to easily take the roots need be dug, but better results can always be obtained by digging out a large space and filling in with good top soil. In setting the trees, do not put deeper than they stood in the nursery, excepting some dwarfs, which go a little deeper. **Be sure to Pack the Earth Solidly Around the Roots.** The neglect of this important detail is responsible for many failures.

DECIDUOUS SHRUBS

Prices F. O. B. Portland.

Almond (*Prunus*)

Beautiful flowering shrubs that bear a profusion of flowers resembling little roses along the stem. One of the earliest blooming shrubs.

Pink or White. Each \$1.50

PINK FLOWERING—(P. Japonica)—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches.

WHITE FLOWERING—(P. Japonica)—Same though white flowers.

Althea (*Rose of Sharon*)

Late summer blooming shrub that continues on up into the fall when color is scarce, bearing flowers that closely resemble the Hollyhocks in color and size. Colors pink, white or red.

Each \$1.00

Azalea

A MOLLIS—Low growing shrub that in the early spring is covered with gorgeous flowers before the leaves appear. Excellent planted under trees or in groups. Cannot guarantee colors, mostly orange, yellow and white. Two feet high.

Each \$3.00

Berberry

COMMON—(B. Vulgaris)—Very graceful and well known; with showy fruit in Fall. **Ea. 75c**

B. THUNBERGI—(Japanese)—Low growing with clusters of white flowers in May. Foliage changes to a beautiful red in autumn. **Ea. 75c**

Buddleya (*Summer Lilac*) (*Magnifica*)

This fine new shrub produces long straight slender branches that terminate in long spikes of lilac-like flowers of a beautiful shade of lavender blue. Commences to bloom in June and continues until frost. Fine subject for lawn or tall hedge. Two-year plants. **Each 75c**

Calycanthus

FLORIDUS—(Sweet Scented Shrub)—An old favorite, double, dark crimson flowers, very fragrant and blooms all season. **Each 75c**

Cherry (*Cerasus*)

FLOWERING CHINESE—Large double white flowers. **Each \$1.50**

FLOWERING SIEBOLDS RED—Large double red flowers. **Each \$1.50**

CHERRY—(Cerus)—Japanese Weeping Cherry—4 feet, single pink flowers. **Each \$3.50**

DECIDUOUS SHRUBS—Continued

Crab (*Malus*)

BECHTEL'S FLOWERING—Bears masses of double rose-like flowers of delicate pink color, and delightful fragrance. Grows tree shape. **Each \$1.50**

Broom (*Cytisus*)

ALBA—(White)—A fine hardy variety, attaining good size. Blooms in early spring. **Each 75c**

SCAPARIUS—(Scotch)—Rapid growing shrub bearing clusters of bright yellow flowers in Spring. **Each 75c**

JUNCEA—(Spanish Broom)—The most beautiful of all, stems almost leafless, and of a vivid green. Blooms all summer when color is most desirable. **Each \$1.00**

Deutzia

PRIDE OF ROCHESTER—(Deutzia Crenata)—Pure white, tinged with blush. Flowers very double, blooming during May and June. **Each 75c**

LEMOINE'S—(D. Lemoinei)—One of the hardiest shrubs and most popular variety, flowers in large clusters of pure white. **Each 75c**

WATERI—(D. Crenata Flora Rosa Plena)—Beautiful dainty double pink flowers. A fine lawn subject. Very showy. **Each \$1.00**

Escallonia

A very compact growing shrub with waxy dark green leaves about two inches long. Bears tubular shaped nearly all summer.

ALBA—White.

ROSEA—Pink. **Each \$1.00**

Forsythia (*Golden Bell*)

F. FORTUNEI—Blooms in dense masses of golden yellow flowers in early spring. Beautiful as lawn tree. **Each 75c**

Honeysuckle (*Bush*)

WHITE TARTERIAN—Bushy upright growth, flowers lively. Red and orange berries stay on until Fall. **Each 75c**

Hydrangea

JAPANESE OTAKSA—One of the most popular lawn plants. The flowers run in shades of pink, blue and white, mineral in soil often changing them to two or three shades in one. Fine for shady places. **Each 75c to \$1.50**

PANICULATA GRANDIFLORA—(Tree Hydrangeas)—Grows three or four feet high. Flowers are in cone shape on ends of branches, and are pure white, afterwards changing to pink, remaining on tree until destroyed by frost. **Each \$1.00**

BUSH HYDRANGEA—Same as above but not in tree shape. **Each 75c**

Kerria

A very graceful shrub that bears bright yellow flowers. Rose shaped in early spring, vivid green branches. Very showy in winter. **Each 75c**

Lilac (*Syringa Vulgaris*)

Every home should have one of these handsome little trees with their delicious fragrance. Grafted sorts.

CHAS. X—Large trusses of reddish purple flowers. **Single, each \$1.25**

MICHAEL BUCHNER—Double large clear deep purple. **Each \$1.25**

MAD. LEMOINE—Large panicles of double white flowers. **Each \$1.50**

S. LUDWIG SPAETH—Single purple **Ea. \$1.25**

COMMON SORTS—Lavender. **Each \$1.00**
White or Purple. **Each 75c**

Mock Orange (*Syringa*)

Large hardy shrub with a profusion of white creamy flowers, very fragrant. **Each 75c**

Prunus (*Flowering Prune*)

P. PISSARDI—Foliage and fruit red, covered in spring with clouds of white flowers. **Ea. \$1.00**

P. BLIVIANS—Same as Pissardi in growth but flowers double pink. Most beautiful of all and very rare. **Each \$2.00**

P. VESUVIUS—Foliage comes out light green gradually getting darker until Fall when it becomes blood red. Very showy fruit. **Ea. \$1.50**

Quince

JAPANESE FLOWERING QUINCE—Covered with bright scarlet flowers very early in the Spring before the leaves appear. **Each 75c**

Spiraeas Each 60c

SPIRAEA THUNBERGII—Charming spiraea with graceful form and abundant blooms.

BILLARD'S—(S. Billardi)—Flowers red in dense spikes, blooms most of Summer.

VAN HOUTTE'S BRIDAL WREATH—(S. Vanhouetti)—Very graceful; flowers white in round clusters. May.

CRIMSON—Anthony Waterer (S. Bumalda)—A most desirable variety, having deep red flowers, blooming all Summer, fine for foreground planting.

JAPANESE—(S. Callosa)—Purplish foliage while young, flowers rosy pink in July.

BLUE SPIRAEA—Beautiful autumn blooming shrub. Flowers bright blue the entire length of stems. **Each 75c**

Snowball

COMMON—Flowers globular, pure white, in May. **3 to 4 ft., each 60c; 10 \$5.00**

JAPANESE—Flowers pure white, delicate large globular heads in May. **2 to 3 ft., \$1.00**

Tamarix

JUNIPERINA—(Africana)—Ornamental tree with soft, juniper-like leaves, pink flowers. **3 feet, each \$1.50**

Weigelia Each 75c

CANDIDA—Flowers white, bush tall.

ROSEA—Flowers light pink, shrub compact.

EVA RATHKE—Flowers red, one of the best.

VARIEGATED—Leaves become silver white.

WEeping TREES

WILLOW (*Salix*)

WISCONSIN—(S. Babylonica dolorosa)—Large glossy leaves and very pendulous habit. **Each \$1.00**

AMERICAN—(S. Babylonica)—The well-known common weeping willow. **Each \$1.00**

DECIDUOUS TREES

Ash

AMERICAN WHITE—Broad, round head and dense foliage. Very fine. **Each \$1.50**

EUROPEAN WEEPING—(F. Excelsior)—Splendid arbor trees. **Each \$1.25; 10, \$10.00**

Beech

AMERICAN—(F. Americana)—Unequaled for splendor. **Each \$1.50**

PURPLE LEAF—(F. Sylvatica Purpurea)—The well known purple leaved beech. Its brilliant foliage makes it a very effective tree where rich color effects are wanted. **Each \$2.00**

Birch (Betula)

EUROPEAN WHITE—(B. Alba)—Silvery white bark and slender drooping branches. **Each \$3.00**

Catalpa

Splendid trees, white flowers, bright foliage.

CATALPA WESTERN—(Speciosa)—Very rapid grower; fine as a quick shade. **7 to 8 feet, each \$2.00**

CATALPA BUNGEI—Dwarf dense rounded headed variety, much in outline like the Poplar Bay Trees, but is hardy and better adapted for the garden. **6 to 8 feet, each \$4.50**

Dogwood (Cornus Florida)

WHITE FLOWERING—Flowers white, 3 in. in diameter, blooming before leaves come in spring. **Price, 4 to 5 ft., ea. \$1.50; 10, \$12.00**

Elm

AMERICAN WHITE—A magnificent tree with drooping branches. **7 to 8 ft., ea. \$1.50; 10, \$15.00**

ENGLISH ELM—A rapid grower, standing erect and compact. Foliage dark green. **Each \$1.50**

Hawthorne

PAUL'S DOUBLE SCARLET—(C. Monogyna Pauli)—A tree of fine habit; flowers bright scarlet, large, full and very double in heavy clusters on long sprays. **Each \$2.50**

DOUBLE WHITE—(C. Monogyna Alba Plena)—Flowers small. Leaves lustrous green color. **Each \$2.50**

HONEY LOCUST. **Each \$1.50**

Horse Chestnut (Aesculus)

WHITE FLOWERING—(A. Hippocastanum)—Foliage showy, flowers stand in upright panicles. **Each \$1.50**

RED FLOWERING—(A. Rubicunda)—Same as above, flowers red. **Each \$2.00**

Laburnum (Golden Chain)

LABURNUM—(L. Vulgari)—A beautiful small growing tree, with long, drooping racemes of fragrant yellow flowers. **Each \$1.50**

Linden (Tilia)

AMERICAN—(T. Americana)—Shapely and handsome; foliage large. **Each \$1.50**

EUROPEAN—(T. Europea)—Similar to American. Leaf smaller. **Each \$1.50**

Locust (Robinia)

BLACK—(R. Pseudacacia)—Rapid grower; fine for street planting. **Each \$1.50**

Magnolia

CUCUMBER TREE—(Magnolia Acuminata)—Tall, pyramidal tree. Showy leaves and yellowish-white flowers. **Each \$2.50**

Maple (Acer)

OREGON SOFT—(A. Macrophyllum)—A rapid grower, fine for avenues. Leaves large. **Each \$1.50**

SYCAMORE—(A. Pseudoplatanus)—Tree large and spreading with handsome foliage. **Each \$2.00**

NORWAY—(A. Platanoides)—Large, growth compact; foliage deep green. Handsome. **9 to 10 feet, each \$2.00**

Mountain Ash (Sorbus)

AMERICAN—(S. Americana)—Very ornamental, handsome foliage turning orange red in the Fall. Red berries remain on the tree most of the Winter. **Each \$1.50**

EUROPEAN—(S. Aucuparia)—White flowers, then beautiful red berries. **Each \$1.50**

Mulberry (Morus)

DOWNING'S EVERBEARING—(M. Rubra)—A rapid grower with good fruit. Fine as a shade tree. **Each \$2.50**

NEW AMERICAN—(M. Americana)—A rapid grower, handsome; splendid as a shade tree. **Each \$2.00**

Oak (Quercus)

SCARLET—(Q. Coccinea)—Pyramidal shape foliage changes to bright red in Fall. **Ea. \$1.50**

OAK PIN—(Q. Palustris)—The Pin Oak is by far the most planted of all the native oaks. Graceful in form, glossy deeply-pinnated foliage. Splendid for lawn or street. **Each \$2.00**

OAK RED—(Q. Rubra)—Ideal for lawn or street. **Each \$2.00**

Poplar (Populus)

6 to 8 feet, \$1.50; 8 to 10 feet, \$2.00

BOLLE'S SILVER—(P. Alba Bolleana)—A compact upright grower, foliage glossy.

LOMBARDY—(P. Nigra Fastigiata)—An erect rapid grower.

Sycamore or Plane (Platanus)

Erect growing tree with mottled trunk. Foliage bright green. **Each \$1.50**

EVERGREEN SHRUBS

Azalea

CRIMSON—(A. Hindogiri)—(Asahi)—Evergreen variety from Japan, bright, minute, waxy foliage that turns gamet in Winter. Loaded in early Spring with masses of scarlet flowers which almost cover the plant. Low-growing, and one of our best massing shrubs.

Choice plants, each \$2.00 to \$2.50

Abelia

ABELIA GRANDIFLORA—Graceful evergreen shrub with small glossy leaves and tubular shaped flowers of a bluish pink color. One of the few late summer, early fall blooming shrubs.

Each \$1.50

Acuba (Japonica) (Japanese Laurel)

ACUBA JAPONICA—Variegated medium sized shrub, with yellow spotted leaves. Has red berries after certain age.

Each \$1.50

ACUBA JAPONICA—Green—Same as variegated, only leaves are dark glossy green, bearing fruit which stays on all winter at age of two years.

Each \$1.50

Barberry

BERBERIS DARWINI—Shrub with holly-like leaves and blue berries; clusters of yellow flowers adorn the branches in early Spring; desirable for hedges.

Each \$1.00

Boxwood (Buxus)

Handsome hardy evergreens that are very popular for use as specimens in lawns, hedges and for tubbed plants.

PYRAMIDAL BOXWOOD—Cone shaped plant of great beauty.

2 to 2½ feet, each \$4.50

2½ to 3½ feet, each \$6.00

GLOBE BOXWOOD—Trimmed in shape of a globe.

Each \$2.50 to \$5.00

BOXWOODS FOR HEDGES AND BORDERS—Write for prices on quantity desired.

Camellia

CAMELLIA—Small trees with shining waxy leaves, and beautiful waxy flowers, very much resembling a small rose. We are only able to offer these in assorted colors.

1½ feet high, each \$2.50

Cotoneaster

A very beautiful shrub, practically evergreen. They are hardy with fine cut leaves and showy red berries that stay on all winter. They come in both bush or trailing shrub, and tall growing form. They can be used for most any purpose.

C. HORIZONTALIS—(Trailing Cotoneaster)—Low growing with horizontal branches, dark green leaves. Fruit bright red.

Each \$1.00 and \$1.50

C. MICROPHYLLA—Small leaved trailing form with minute green leaves. Fine for rockwork—more evergreen.

Each \$1.50

C. FRANCHETTI—A large sized shrub of graceful droopy habit, covered with a mass of red berries in Fall.

Each \$1.00 and \$1.50

C. SICONSI—A pretty shrub of upright growth, bright leaves and white pinkish flowers, covered with large red berries all winter. Fine for massing.

Each 75c to \$2.00

Daphne

Evergreen Japanese shrub with waxy light green foliage. Pink and white flowers in early Spring that are well known for their wonderful fragrance. We offer these plants well rooted out of 5-inch pots. No color guaranteed.

Each \$1.50

Holly (Ilex)

We have a fine lot of Hollies, grafted stock. No trees sent out without berries on them.

ENGLISH—(Aquifolia)—Prickly, dark green foliage; grows moderately fast, covered during the winter months with bright red berries.

Berry-bearing trees, each \$3.50 and up

Juniper

EXCELSA STRICTA—A beautiful slow growing Juniper. Pyramidal in form with light green foliage. Fine for specimen planting in yards.

Each \$2.00 and \$3.00

Lauristinus

LAURISTINUS—Well known evergreen shrub, with dark green leaves. Flowers white tinted with pink, blooming in late winter, early spring.

Each \$1.00 to \$2.00

Laurel

ENGLISH LAUREL—(Laurel Lauro-Cerasus)—A small tree or shrub with large handsome shining foliage during the entire year. Fine for hedges or specimen plants.

Each 75c to \$2.00

(Write for special price on hedge plant size.)

Lonicera

NITIDA—(Evergreen Bush Honeysuckle)—New evergreen shrub, slender branches with bright glossy foliage. Excellent for massing or tub plant. There is no better evergreen shrub for the price.

Each \$1.00 to \$1.50

Oregon Grape

OREGON GRAPE—(Mahonia Aquifolia)—Official flower for the State of Oregon. Holly leaved Barberry. Fine for shady places.

Each \$1.00

Privet California

(Ligustrum Ovalifolium)

CALIFORNIA PRIVET—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants, and takes 2 plants to the foot.

18 to 24 in., 10 plants \$1.00, \$7.50 per 100

24 to 30 in., 10 plants \$1.25, 10.00 per 100

Pyracantha

EVERGREEN THORN—Tall growing shrub with long narrow green leaves, small white flowers, followed by orange scarlet berries that stay on all winter. There is no better shrub for the background. Very popular. We have both the orange scarlet and orange yellow berried plants.

Each \$1.50 to \$2.00

Rhododendron

GRAFTED VARIETIES—Magnificent, June and July flowering evergreen shrubs; the finest and most hardy of all evergreens; they prefer a somewhat shady situation. There are many varieties, the flowers of which are produced in great abundance and in shades of the following colors: White, blue, purple, cherry, lilac, mauve and crimson.

Each \$5.00 to \$6.00

Extra large specimens, \$8.00

Veronicas

Shrubs of compact growth forming well rounded specimens which can be used singly or in groups. Fine to use as borders or to place in front of taller growing species. Does well in shade, and as well in sun. Becoming more popular every year.

V. BUXIFOLIA—(Box Leaved Veronica)—A small shrub of upright growth, very compact. Small foliage with pure white flowers.

Each 75c to \$1.25

V. CYPRESSVIDES—Globular shaped with numerous slender branches clothed with scale-like leaves which give it the appearance of cypress. Valuable in the shrubbery border.

Each 75c to \$1.50

V. TRAVERSI—Upright growing variety. One of the hardest. Bears white flowers during early summer. More common.

Each \$1.00 to \$1.50

CONIFEROUS EVERGREENS

Arbor Vitae (*Thuja*)

AMERICAN — (*T. Occidentalis*) — Native, known as cedar. Foliage bright green, yellow-green underneath; brown and bronze in winter. **Each \$1.50**

ORIENTAL — (*T. Orientalis*) — Fine, with close ascending branches of a fan shaped appearance. **Each \$3.00**

Cedar (*Cedrus*)

DEODAR or INDIAN CEDAR — (*C. Deodara*) — Very handsome; branches drooping; foliage silvery green. Very popular. Vigorous grower. **Each \$2.50**

BLUE VIRGINIA CEDAR — (*Juniperus Virginiana Glauca*) — Compact upright grower; foliage silvery blue. **Each \$3.00**

RED CEDAR — (*Juniperus Virginia*) — Native with striking form and beautiful color. **Each \$2.50**

Cypress (*Cypressus*)

New Varieties

ALLUMII — Handsome pyramid shaped conifer. Foliage greenish-blue. **Each \$3.00**

TRIUMPH OF BOSKOOP — Spreading habit; strong grower; one of the bluest conifers in cultivation. **Each \$3.00**

CYPRESS LAWSON'S — (*Chamaecyparis Lawsoniana*) — Graceful and conspicuous; branches horizontal, slightly pendulous, foliage dark green. **Each \$2.50 to \$4.00**

Hemlock (*Tsuga*)

WESTERN — (*T. Hookeriana*) — Very beautiful and appealing; branches pendant and foliage deep green. **Each \$3.50**

Fir (*Abies*)

AMERICAN BALSAM — (*A. Balsamea*) — Prized for its delightful aroma. **Each \$3.00**

NORMAN'S — (*A. Normanniana*) — Lustrous, deep green foliage; very symmetrical. One of the best. **Each \$3.00**

WHITE — (*A. Concolor*) — A fine spruce; rapid growth; very hardy. Very attractive. **Each \$3.50**

Juniper (*Juniperus*)

IRISH — (*J. Communis hibernica*) — Pyramidal in form, foliage silvery gray. Very striking. **2 to 3 ft., each \$2.00**

COMMON — (*J. Communis*) — Branches spreading. Fine trees. **Each \$2.00**

Juniperus (*New Varieties*)

PHTZERIANA — A graceful growing variety with horizontal branches and grayish-green foliage. **2 to 3 feet, each \$3.00**

Pine (*Pinus*)

AUSTRIAN — (*P. Austriaca*) — Well known and widely planted, especially at seashore, growth rapid, quite hardy. **Each \$4.00**

SCOTCH — (*P. Sylvestris*) — Robust growth; branches pendulous; leaves bluish green. **Each \$3.50**

Spruce (*Picea*)

NORWAY — (*P. Excelsa*) — A lofty, rapid grower; branches drooping. Fine for hedge or windbreak. **Each \$3.00**

FRUIT TREES, BERRY BUSHES, PLANTS

IN THE PURCHASE of fruit stocks great care should be given to the selection of varieties that will meet your conditions and requirements, as many that thrive and bear abundantly in one section often prove disappointing under variable conditions. Also many splendid sorts for home use are totally unsuited for profitable marketing. For this reason we offer a large assortment of improved varieties carefully tested and selected for their special merits and their adaptability to varying conditions, and if you will state whether you intend growing for distant or local market or for home use, giving location and general conditions, we can recommend or assist in the selection of those varieties that will give you best results.

KEEPING TREES OVER WINTER FOR SPRING PLANTING

This can easily be done by following the simple instructions given below:

Select a well-drained spot where the soil is mellow, and dig a trench deep enough to cover the roots well; put in one layer of trees, placing them so they will not be erect but at a decided angle, pack the dirt firmly about the roots, then place the next layer. When trees are all "heeled" in, cover the tops with boughs or bank up the earth over them. Be sure there is no grass or rubbish near to harbor mice. In mild situations where winters are not severe, do not bury or cover the tops; simply "heel in." Trees thus kept on hand ready for planting as soon as the frost is out of the ground will be found well preserved and are more sure to grow than later spring planting. Besides you get better service by ordering in the early fall as stocks are more complete.

If trees are frozen in transit, do not unpack, but set away in a cool cellar and allow them to thaw gradually. Trees or roses that are dried out and shriveled should be buried, tops and all, in moist earth for a few days. This will restore them.

Deliveries can be made from November until May, but orders are accepted at any time for delivery in season.

APPLES

This is a good year to plant Apple trees. The standards of production and markets are well established, making an apple orchard a safe investment. Write for quotations on large orders.

	Each	Per 10	Per 100	F. O. B.
First Grade, 2 years.....	\$0.75	\$6.50	\$50.00	Portland;
First Grade, 4 to 5 feet.....	.50	4.50	40.00	If mailed,
First Grade, 1 year, 3 to 4 feet.....	.40	3.50	30.00	postage extra.

Summer Varieties

EARLY HARVEST—Medium size; bright straw color; tender and fine, good for table and cooking. July.

FAMEUSE—(Snow Apple)—Medium, roundish, greenish-yellow, with streaks of deep red and sunny side; flesh remarkably white; fine dessert fruit. October to December.

FALL PIPPIN—Yellowish green; good cooking apple. September.

GOLDEN SWEET—Large, pale yellow, tender and rich; good for cooking; fine bearer. August.

GRAVENSTEIN—Large, beautifully dashed with deep red and orange, tender and crisp, with a highly aromatic flavor; tree very vigorous. August.

Autumn Varieties

RED ASTRACHAN—Large, deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive. August.

WEALTHY—Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy. October.

WHITE ASTRACHAN—Greenish white, very showy, constantly growing in favor where known. Late July.

YELLOW TRANSPARENT—Medium size, roundish, slightly conical; skin pale yellow; flesh tender, juicy, sub-acid; good; bears at an early age. July.

Winter Varieties

ARKANSAS BLACK—Medium, round; yellow where not covered with a beautiful dark maroon, approaching black; flesh firm, fine grained, juicy; a long keeper. December to April.

BISMARCK—The apple novelty; everyone should try it; tree of short, stocky growth, thick, healthy foliage; fruit large, handsome, yellowish, sometimes shaded red cheek; flesh tender, pleasantly sub-acid; entirely new; seldom failing to bear when two years old. September.

BALDWIN—Large, rounded; deep, bright red; very productive; crisp, fine flavor; one of the best and most popular winter apples. November to February.

DELICIOUS—A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use and especially adapted to Eastern Oregon and Washington. Keeps till April.

GRIMES GOLDEN—Very popular. Rich golden yellow; flesh tender, juicy and rich. Tree hardy and vigorous, bearing young. November to December.

JONATHAN—Tree vigorous, long lived and an early bearer. Fruit beautiful red and oblong; fine quality. Valuable as a pollinizer with Spitzenberg and Newtown. October to January.

KING—Large and handsome, striped red and yellow; tree vigorous and productive. November to December. Good mountainous apple.

McINTOSH RED—A seedling of the Fameuse; bright red; flesh white, very tender and delicious. Long lived and very productive. Adapted to Montana. November.

MULTNOMAH—(New)—A grand new sort; a hybrid between the American Pippin and Rome Beauty. Originated by H. A. Lewis. Fruit, large; color red, striped yellow; flesh white and fine and of sub-acid flavor; extra long keeper and in its prime from February to June; the coming apple for long distance shipment and Oriental trade. Price, each 50c

NORTHERN SPY—Large, round, greenish-yellow, stripes of purplish-red; flesh white, juicy, brisk sub-acid; valuable for "top work." Requires good soil. December.

ORTLEY or WHITE BELLFLOWER—White fleshed, fine grained conical fruit of superior flavor; one of the best. December to April.

RED CHEEK PIPPIN—Excellent variety; sub-acid flavor; yellowish green color; red cheek; large size; good bearer. Keeps till March.

ROME BEAUTY—Large, yellow, shaded with bright red; juicy and sub-acid; fine market sort; good bearer. November to February.

SPITZENBERG—Large, oblong; yellowish ground with broken stripes of bright red flesh yellowish, juicy, delicious rich flavor. November to March.

TOLMAN'S SWEET—Medium size, pale, whitish yellow, tinged with red; flesh firm, rich and very sweet; best to preserve, vigorous; productive. November to April.

WINTER BANANA—Fancy market fruit; pale yellow with pink blush. Has a delightful aroma and suggestive banana flavor. Not a good shipper. November.

YELLOW BELLFLOWER—Large, oblong, yellow, sometimes a blush in the sun; flesh firm, crisp, juicy, sub-acid; tree a good grower and very productive; succeeds well in this valley. October to January.

YELLOW NEWTOWN PIPPIN—Large; skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties for export. December to May.

Crab Varieties

FLORENCE—Red striped; early good annual bearer, juicy and crisp; fine for home gardens. September 1.

RED SIBERIAN—Yellow with scarlet cheek. Bears young and abundantly. September.

TRANSCENDENT—Very large, good for cider; yellow striped red. Productive. Adapted to Montana. September.

PEARS

WE CAN SUPPLY all standard varieties of Pears, but list only those in greatest demand. If the variety you want is not listed, write us.

	Each	Per 10	Per 100
First Grade, 1 year, 4 to 6 feet.....	\$0.75	\$7.00	\$60.00
First Grade, 1 year, 3 to 4 feet.....	.60	5.50	50.00

F. O. B. Portland; if mailed, postage extra.

Autumn Varieties

BARTLETT—Large; skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

BEURRE BOSCH—Large, beautiful, russety; highly flavored; fine for shipping. September.

BEURRE D'ANJOU—Large, handsome, fine flavor; tree vigorous; heavy bearer; keeps till Christmas. September.

COMICE—A splendid commercial variety, bearing of fine size; good appearance; ships well. October.

FALL BUTTER—A favorite fall pear; yellow, sweet and juicy. September.

FLEMISH BEAUTY—Large, beautiful, rich and sweet; pale yellow with slight russet. Adapted to Montana and the Northwest.

SECKEL—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek; September, October.

Winter Varieties

P. BARRY—Fine keeper. Very large, juicy, fine grained, yellow. December, March.

WINTER BARTLETT—This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; flavor almost identical with the Bartlett; is undoubtedly one of the few pears of recent introduction of real merit.

WINTER NELLIS—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor. December.

CHERRIES

4 to 6 ft., \$1.25 each; \$10.00 per 10; \$90.00 per 100.

F. O. B. Portland; if mailed, postage extra.

BURBANK — (Burbank's Production) — The earliest of all large cherries; the fruit is extremely large for an early cherry, attractive deep crimson color, and of superior quality. The Burbank produces as well or better than most late cherries, but it brings the early market price. This cherry means profit to you.

BING—Originated in Oregon, from seed of Black Republican; fruit large, dark brown or black; very fine; late; good shipping variety. July.

BLACK REPUBLICAN — (Lewelling)—Seedling, raised by Seth Lewelling, of Oregon; large size, black, sweet, with purplish flesh; late and a good shipper. June.


KENTISH — (Early Richmond) — Dark red, juicy; one of the best sour cherries and unsurpassed for cooking purposes; very productive. Mid-May.

LAMBERT—Fruit of largest size and of fine quality; color deep rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann. Mid-July.

LATE DUKE—Large, light red; late and excellent, sub-acid. Late July.

MAY DUKE—Large, rich, dark red; flesh tender, juicy and sub-acid; an excellent variety and one of the earliest of its class. May.

ROYAL ANN—(Napoleon Bigarreau)—A magnificent cherry of the largest size; pale yellow becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer. July 1.

 **SPRAYS AND FERTILIZERS—PAGE 43.**

PLUMS

2 year, \$1.00

4 to 5 ft., 50c each, \$4.50 per 10, \$40.00 per 100 / F. O. B.

3 to 4 ft., 40c each, \$3.50 per 10, \$30.00 per 100 / Portland

BRADSHAW—Reddish purple, juicy and pleasant; adheres partially to the stone. July.

COLUMBIA—Largest size, nearly globular; brownish purple; rich, sugary, freestone. August.

PEACH—Very large; skin brownish red, slightly coarse grained, but juicy; freestone; very popular. July.

COE'S GOLDEN DROP—Very large; light yellow; sweet and delicious. Late September.

DAMSON—Small, oval, bluish purple; flesh melting, rather tart. Tree very fruitful and hardy. August.

YELLOW EGG—Very large; skin of a deep golden color, but rather acid; excellent for cooking; very showy. August.

PLUMS—Continued

DAMSON — SHROPSHIRE — Medium size, dark purple; very firm; flesh greenish, juicy and rich. Vigorous. Late September.

GREEN GAGE — Small round; flesh pale green, melting and juicy; freestone. Mid-July.

MAYNARD — Dull red, large, round and firm; rich and sweet; sturdy, quick-growing, heavy-yielding variety; extra fine; ripens in July.

PRINLEW PLUM — Best large Plum for fruit market. Larger than Giant Prune and quite solid meat. Good shipper.

Each \$1.00; 10, \$8.50

SATSUMA — (Blood Plum) — Quite popular; large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

WASHINGTON — A large plum; skin dull yellow, with a pale crimson blush; flesh firm; very sweet and luscious; freestone. Early August.

PEACHES

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100.

F. O. B. Portland; postage extra if mailed

EARLY ALEXANDER — One of the largest and best of the extra early varieties. Almost freestone. July.

EARLY CRAWFORD — Very large, yellow, red, cheek; sweet and excellent; popular for table and canning; freestone. August.

ELBERTA — Very large bright yellow, red cheek; juicy, sweet; regular bearer; freestone. Late July.

HALE'S EARLY — Early, free; extra quality; hardy; prolific.

LATE CRAWFORD — Very large; yellow, dark red cheeks; flesh deep yellow; juicy; rich and excellent; freestone; valuable for canning and drying. September.

LOVELL — Leads all other freestones, especially in California; medium to large; shaded red; flesh firm and rich. Fine for canning, drying and shipping. Tree vigorous and good bearer. August.

MAYFLOWER — Beautiful red all over; extremely early; tree hardy and healthy. Last of June. Freestone.

MUIR — Large, pale yellow; very firm and sweet; best for drying; freestone. August.

SALWAY — Creamy yellow, red cheek; flesh deep yellow, red at the pit; rich and sweet. Freestone. Late September.

TUSCAN CLING — Very large; yellow, blushed red. Vigorous; strong grower. July, August.

PRUNES

IF YOU CAN—Grow Prunes — The demand is always good and will increase every year as they can only be grown in certain sections, but where conditions are right they are easily and profitably produced.

PRICES, except where noted: (Special prices in 1000 lots)	Each	Per 10	Per 100
First Grade, 2 years	\$1.00	\$9.00	.....
First Grade, 1 year, 6 to 8 feet .....	.75	6.00	\$55.00
First Grade, 1 year, 4 to 6 feet .....	.50	4.00	35.00
First Grade, 1 year, 3 to 4 feet .....	.40	3.00	25.00

F. O. B. Portland, postage extra

GIANT — Largest prune known; fruit averaging 1½ to 2 ounces each; retaining the good qualities of the smaller varieties.

HUNGARIAN — Very large; dark red, juicy and sweet; good shipper. August.

ITALIAN — (Fellenberg) — Large, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. August.

Write for Special Prices in Quantities.

PACIFIC — Large, sweet; same color as Italian. Good canner or to eat raw. Early August.

PETITE — (French) — Medium, egg shaped; violet purple; sweet, rich and sugary; very productive; standard variety for drying. August.

PLANT a Prune Orchard Now.

SILVER — Seedling of the Coe's Golden Drop; tree vigorous and productive; fruit large and superior; excellent for drying or canning. September.

NEW STANDARD — (Burbank Production) — The trees are enormous and never failing bearers, and good, healthy growers. Well grown fruits measure four and a half inches around one way by nearly six inches the long way. Skin purple; with a heavy blue bloom; flesh amber or honey yellow, fine grained, juicy, yet firmer than most other drying prunes, very sweet and a perfect freestone.

SUGAR — (New) — Tree vigorous grower; early variety; fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early August.

FLORISTS' SUPPLIES

We carry a complete line of high-grade stocks at prices so reasonable that you cannot afford to "Go East" for them. Write us your requirements or send in a trial order.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

APRICOTS

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

3 to 4 ft., 50c each, \$4.50 per 10, \$40.00 per 100

F. O. B. Portland; postage extra if mailed

THE LEWIS—The new Lewis Apricot is the largest, strongest growing, best yielding, best flavored apricot we have ever seen, and is perfectly hardy. Grown extensively in the "Goodnoe Hills" district. July, August.

MOORPARK—Very large, yellowish green, brownish red and the sunnyside; flesh bright orange; fine for canning and drying; freestone. July, August.

ROYAL—Above medium size; sweet, rich, juicy; good dryer and canner. July.

TILTON—Large; rich color, high flavor; very productive; similar to Royal; later. July.

BLLENHEIM—Deep orange, sometimes blushed, tender, rich and juicy. Tree vigorous. Good for Pacific Coast. Last of June.

NECTARINES

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

F. O. B. Portland; postage extra if mailed

BOSTON—Large, deep yellow, bright bluish; flesh yellow; very rich and luscious. Best for Oregon. August 1.

EARLY VIOLET—Medium; skin pale, shaded violet; flesh white; good. July.

QUINCE

PRICES: Each 10
First Grade, 2 years.....\$1.00 \$9.00

Postage Extra

APPLE OR ORANGE—Well known standard variety; early; large, golden yellow; good for preserving or flavoring. September.

CHAMPION—Large, yellow; flesh cooks very tender; flavor is most delicious; more productive than the orange. October.

PINEAPPLE—Flavor is suggestive of the pineapple; the fruit resembles the Orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor, not equaled by any other quince. September.

DWARF FRUIT TREES

Ideal for home gardens; come into bearing early. Forty Dwarf Trees can be planted in a space 50 feet square and will not shade the ground, which can be cultivated between the trees. For best results Dwarf Trees must be planted in good rich soil and be well cared for; they should be pruned back about two-thirds of their new growth each spring.

PRICE: Each \$1.00, 10 for \$9.00. F. O. B. Portland, postage extra.

DWARF PEARS—Bartlett. **DWARF APPLES**—Write for varieties.

NUT TREES

Almond (*Nut Bearing*)

ALMOND—(Nut Bearing)—Almonds can be grown successfully in many sections of Oregon and Washington, and are attracting much attention from commercial orchardists. We can supply most of the leading varieties at price listed. Special prices on large orders.

3 to 5 ft., each 75c; 10, \$6.00; 100, \$50.00

I. X. L.—A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial sort.

NONPAREIL—Tree beautiful, slightly weeping; nut sweet and shell very thin. Best for the home.

BUTTERNUT—A beautifully formed tree bearing a rough coated nut of most attractive flavor, well known to the Middle West. Succeeds fairly well in the Pacific States.

3 to 5 ft., each 75c; 10, \$6.00

Hickory

SHELLBARK—Popular Eastern variety; tree hardy but slow grower. Nuts medium size; very good. Quality excellent.

3 to 5 ft., each \$2.00; 10, \$15.00

Filberts

BARCELONA—Magnificent large nut from Spain, first quality; can be grown as low standard tree or bush.

2 to 3 feet, each 75c; 10, \$5.00

DU CHILLY—The largest Filbert on Pacific Coast. Nuts are broad, 1 inch by $\frac{3}{4}$ of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders. Du Chilly is a good pollinizer for Barcelona.

2 to 3 feet, each 75c; 10, \$5.00

KENTISH COB—An English variety of fair quality and liked by many planters. Nuts large and good tasting.

2 to 3 feet, each 75c; 10, \$5.00

Our **DIAMOND LAWN GRASS** makes an Evergreen, Velvety Turf

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

WALNUTS

Walnuts are a sure and profitable crop on the Pacific Coast, and we also urge their planting for shade and ornamental purposes. They grow rapidly, are free from pests, and are handsome and lasting. Only grafted trees should be planted as they yield heavier, the nuts are of better quality and more uniform.

Grafted Walnuts

We offer a splendid strain of Franquettes, the best variety for this section, grafted on four-year California Black Walnut—sturdy, thrifty trees with big fibrous roots. The best to plant. Comes to bearing much younger than seedling walnut.

Prices, F. O. B. Port- } 3 to 4 ft., each \$2.00
land. } to 5 ft., each 2.50
Cannot be mailed. } 5 to 6 ft., each 3.00

Seedling Walnuts

FRANQUETTE AND MAYETTE—Second generation, soft shell, selected stock. Trees hardy and prolific bearers. Nuts are rich and meaty. **Each \$1.00**

CALIFORNIA BLACK—A rapid grower and very desirable; nut medium size, with hard, smooth shell. Adapts itself easily to different climates. **Each \$1.75**

CURRENTS

Currents are a profitable, easily grown crop, and the market is always good.

PRICES: Each 25c; 10 \$2.00; 100 \$15.00. F. O. B. Portland, postage extra.

PERFECTION—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid.

BLACK NAPLES—Very large, black, rich, tender; fine for jellies and wine. Productive, vigorous.

CHERRY—Very large; deep red; fine for preserving; valuable market variety.

FAY'S PROLIFIC—Bright red, very sweet; fruit hangs on better than most varieties.

VICTORIA—Large, bright red bunches; late productive.

WHITE TRANSPARENT—The best white currant known. Splendid market variety; rich flavor; mild sub-acid.

GRAPES

PRICES, except where noted: Write for prices in quantity. Each Per 10 Per 100
2-year plants, not prepaid, postage extra. \$0.25 \$2.00 \$18.00

CAMPBELL'S EARLY—Berries large, nearly round, black, with light purple bloom; flesh rather firm but tender; quality rich, sweet, slightly vinous; a strong and vigorous grower. August. **Each 35c, 10 for \$3.00**

MOORE'S EARLY—Bunch medium; berry large, resembling Concord, but more pulp and is earlier.

CONCORD—Large, black grape; bunches compact; berries round sweet and pleasant. August.

DELAWARE—One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red. August.

EATON—Vigorous grower; very productive; bunches large, compact; fruit large, round, black, covered with a thick blue bloom. September.

NIAGARA—Bunch medium; berry large, roundish, uniform; skin thin but tough; pale yellow flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September.

WORDEN—Bunch very large and compact; berry large, black; an improved Concord. Late August.

European Varieties

FLAMING TOKAY—Large, light red; flesh firm and sweet; fine table sort and a good shipper. September.

Tokay, Muscat, Malaga and other European Varieties, Choice Plants at above Prices. Plant in warm sunny place.

Diamond Fertilizers

GOOSEBERRIES

PRICES: Each 25c; per 10 \$2.00; per 100 \$12.00; F. O. B. Portland

Federal Quarantine prevents shipment of Gooseberries into the State of Washington

PEARL—Large, light yellowish green; very hardy and free from mildew; superior in size and quality. Very prolific.

OREGON CHAMPION—Berries very large, pale green; sweet, fine; gush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

Raspberries (Black Caps)

Prices, except where noted: Not prepaid,
2 years—Each 25c; 10, \$2.25; 100, \$20.00;
1 year—Each 20c; 10, \$1.50; 100, \$12.50.

GREGG—Of good size, fine quality; very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

PLUM FARMER—Large black, hardy and productive. One of the very best.

Raspberries (Red Caps)

Prices, except where noted: Not prepaid,
1-year—Each 10c; per 10, 50c; per 100 \$2.00.

CUTHBERT—Deep rich red, large and firm; one of the best market berries. Ripens medium to late.

MARLBORO—Standard, light crimson, large, very firm; good commercial variety; ripens early.

STRAWBERRY PLANTS



DIAMOND Quality Strawberry Plants are large, vigorous and healthy. They are heavily rooted and have large, full crowns; have been carefully grown and are free from disease and pests. We dig as ordered and pack for shipment in ventilated crates of 500 plants each. They are grown from our select strains and are always true to name; no substitution is ever allowed without instructions from the purchaser.

Our select strains of **New Oregon, Gold Dollar, Marshall, Magoon, Clark's Seedling** and other Western varieties, many of which were introduced by ourselves, still hold their positions as the **leading commercial varieties of the Northwest**, and are being planted more extensively each season, thus demonstrating by actual market and growing tests the great superiority of our Western varieties, against the keenest competition from all sections.

Care For and Feed Your Plants

Neglect is the prime factor in strawberry failures, and most strawberry beds suffer from lack of attention and starvation. Proper fertilization and intelligent culture insure enormous crops of finest fruit and freedom from diseases and pests. White grubs, cutworms, crown miners, etc., can all be controlled by preventive measures. Never set strawberries in or near clover sod or hay fields. Such ground should have at least two years cultivation before using for strawberries. Remove the mulch directly after fruiting.

NEW OREGON

Our Own Introduction

Best, Most Uniform and Heaviest Yielding Main Crop Strawberry

PRICE: \$8.00 per 1000. F. O. B. (See next page for less quantity.)

"NEW OREGON" is large, firm and of fine form, averaging 15 to the quart box; color a brilliant, deep, rich red, having a glossy varnished appearance when fully ripe. This dark blood red coloring extends through to the very center, and, no matter how large, "NEW OREGON" is never hollow. When fully ripe the distinctive flavor is suggestive of the wild berry, is crisp and delicious, and will remain on the vine for three days without injury, keeping perfectly for many days after picking; stands handling and long shipments and will hold its color, shape and flavor when canned.


"NEW OREGON" is an early bearer, being ready for marketing the first half of May in the Willamette Valley and holds up

**Big
Healthy
Well
Grown
Plants**

*Trim Roots
here when
ready to
set out*



in size and quality throughout the season, which in some localities extends until frost.

 The strawberries here offered have all stood the market test and you will be safe in selecting any one of them that will suit your conditions and requirements. They are the best varieties obtainable.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

FALL OR EVERBEARING STRAWBERRIES

Fall bearing Strawberries, also known as "Everbearing," are very satisfactory for home gardens and under some conditions will prove profitable commercially, but require special care and attention to secure best results as the late fruit will be small and yield less if the first blossoms are not removed, and the plants are allowed to fruit early and continuously. When properly grown they are of splendid quality and yield heavily until frost.

PROGRESSIVE—Rich, red color, firm and of delicious flavor. Good keepers and shippers. Blossoms should be cut back about 4 weeks before the berries are wanted. We consider this the best of its class.

SUPERB—Considered by some as being the best of the everbearing, but in our experience they do not ship as well as the "Progressive" although they are a little larger when properly grown and the quality is fully equal to that of the best of the standard sorts.

PRICES: Postpaid, per doz. 60c; 25 plants \$1.00; 100 plants \$3.00
Not prepaid, per doz. 50c; 25 plants 75c; 100, \$2.50; 1,000, \$18.00

STANDARD VARIETIES OF STRAWBERRIES

GOLD DOLLAR—(Extra Early)—Gold Dollar berries are large size, dark red all through and have fine flavor. Foliage heavy, large and spreading, which protects the blooms from early frosts. Gold Dollar Strawberries are the standard early berry in the big markets of the Northwest and are always in demand.

MARSHALL—Very large; dark crimson throughout; fine flavor; a fine market and table berry. Our stock is true, vigorous and prolific.

PRICES: All varieties except
Fall Bearing

Prepaid	1 doz., \$0.30	Not	25, \$0.40
	25, .50	Prepaid	100, 1.00
	100, 1.50		1000, 8.00

Not less than 500 plants of a kind at 1000 rate. Special prices on 3000 or more.

All our plants are officially inspected in the field by the State Horticultural officers and by our own inspectors.

LOGANBERRY

The loganberry is generally larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry. Fruit ripens early; excellent for jelly or jam. June.

PRICES, not prepaid—Large, well-rooted plants; Two-year-old, each 25c; 10 for \$2.25; 100 for \$20.00. One-year-old, each 15c; 10 for \$1.35; 100 for \$12.50.

Dewberry

Price, not prepaid, each 20c; per 10, \$1.75; per 100, \$12.50

LUCRETIA—Fruit large, soft, sweet; no hard core. Hardy, good for this coast. Last of May.

GARDENIA—Large glossy black; delicious heavy bearer; trailing vine. June.

BLACKBERRIES

PRICES, not prepaid, 1 year: Each 20c; 10, \$1.75; 100, \$15.00

HIMALAYA GIANT—(Evergreen)—An exceedingly strong rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

ELDORADO—A valuable new variety; fruit large, jet black, melting, sweet and rich; hardy and very productive; fine for Oregon.

LAWTON—Fruit large; very productive; well and favorably known; Oregon's most popular kind.

THORNLESS MAMMOTH BLACKBERRY

—(Cory)—It is a strong, vigorous grower; bears prolific; the canes grow thick and stout until about 5 or 6 feet long when they take the trailing habit, at which time they should be trellised.

It has a delicious flavor of its own, somewhat resembling the wild California blackberry. It is self-fertilizing—never been known to fail to bear.

Another very important feature is that it is almost seedless.

Tips—Spring del. only, ea. 20c; 100, \$12.00
1-year transplanted, ea. 25c; 100, \$20.00

RHUBARB

PANAMA RHUBARB

THIS RHUBARB won the first prize at both the San Francisco and San Diego Expositions, and is being placed on the market at a price that should warrant extensive planting. As a rhubarb the Panama is unquestionably in a class by itself. Words cannot describe its wonderful flavor and the many other qualities that make it far superior to any other rhubarb. Panama is an everbearing rhubarb, growing continuously throughout the year, both summer and winter. Frost will not kill it, and in the absence of frost it will make its best and most profitable growth during the winter. It is a far cry from the superlative Panama to the ordinary Eastern and other varieties. In size it is more than twice the size, and the stalks are much heavier and larger, full grown stems often being three feet long and weighing two pounds.

FLAVOR—The flavor has been described as of the plum type, although due to its elusive taste, it is almost impossible to definitely fix it. Suffice it to say that a Panama rhubarb pie or sauce is so far superior to others, that comparison is out of the question. The Panama is comparatively free from acid, requires less than half the amount of sugar ordinarily used, and should not be peeled. All the roots are what is known as subdivisions.

CULTURE—The Panama is very easily grown. Plant not more than one-half inch below surface of ground, and water immediately after. Keep the ground well cultivated close to the plant within a radius of at least two feet from the plant. During the first two months irrigate once a week and cultivate after each irrigation.

Plant from three to four feet apart in the row, and have rows from four to five feet apart.

PRICE—Each, 50c; dozen, postpaid, \$5.00; per 100, F. O. B. Portland, \$40.00.



RIVERSIDE GIANT RHUBARB

RIVERSIDE GIANT is very favorably known and has stood the test of time, being crisp, tender, free from stringiness with a good color and a delicious, distinctive flavor. The skin is so thin that it disappears in cooking. Riverside Giant has every good quality of a commercial rhubarb and is so vigorous and productive that over thirty-five tons per acre is a conservative estimate for the season. Cuttings begin in March and usually four are made, the last one in July. Full information for preparation of the soil and growing the crop, as practiced by the originator, will be sent on request to all purchasers.

PRICE: Each, 15c; doz., \$1.50; \$8.50 per 100. Special prices on large lots.

Don't plant rhubarb along a fence, near trees or other crops. Give plenty of room. Write for cultural directions.

DIAMOND FERTILIZERS

The Base is Bone Meal and Tankage—No Cheap Filler. Every Pound is Good Fertilizer



DIAMOND QUALITY Fertilizers are complete fertilizers of the highest grade and concentration, no inferior ingredients or cheap fillers are used in their preparation, Bone Meal and Tankage forming the base to which is added the necessary Potash, Nitrogen and Phosphoric Acid. Each package is marked plainly, showing the percentage of available plant food. Use it on your Rhubarb.

WEeping WILLOW (*Salix*) TREES

AMERICAN — (*S. Babylonica*) — The well-known common weeping willow. **Each \$1.00**

WISCONSIN—(*S. Babylonica dolorosa*)—Large glossy leaves and very pendulous habit.

VEGETABLE PLANTS—All Standard Varieties in Season—See Seed Catalog.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

ASPARAGUS

GROW WASHINGTON PEDIGREED ASPARAGUS

The Best in the World

WHY WASHINGTON ASPARAGUS?

Because this is the variety that the Bureau of Plant Industry at Washington, D. C., has developed after many years of experimental work beginning in 1908.

Asparagus fields have been affected in the past years with rust and other disease, and the United States Department of Agriculture has devoted painstaking work in combatting these diseases. The final outcome will, it is believed, to be the replacement of old varieties of asparagus by a new strain which is larger, more uniform, more productive, hardy and disease-resistant. The Washington asparagus owes its origin, in fact, to efforts to combat the rust and other diseases. It is our firm belief that growers in this section, and other asparagus growing sections, will find it greatly to their advantage to plant the Washington Pedigreed Asparagus, and we are certainly fortunate to be able to offer our customers quantities of the Washington and limited quantities of the Mary Washington Asparagus.

The Washington Asparagus is more largely grown and its merits more largely known, the Mary Washington being a more recent production has not been given the tests of the parent plant but the indications are that it will prove a little earlier.

Color green. Very similar to the Palmetto and Argenteuil

HOW MANY PLANTS TO THE ACRE?

A common planting is in rows 4 feet apart, 11 inches apart in the row, about 7000 plants to the acre. See back cover of this catalog for an actual photograph of a bunch of Washington Asparagus taken from a shipment. Washington and Palmetto Asparagus planted this spring, side by side, we find the Washington has made double the growth over the Palmetto.

PRICE—1-year plants, postpaid, 75c per doz.; \$2.00 per 50; \$3.50 per 100. By express or freight, not prepaid, \$1.50 per 50; \$2.50 per 100; \$15.00 per 1,000.

PALMETTO

The favorite green asparagus. Extra early and the uniformly large stalks remain tender, being in prime condition for some days after coming above the ground. Palmetto is a heavy, sure cropper.

ONE-YEAR-OLD PLANTS—Postpaid, 30c dozen, 75c per 50, \$1.15 per 100. By express or freight, 25c dozen, 60c per 50, \$1.00 per 100, \$7.00 per 1,000.

TWO-YEAR-OLD PLANTS—Postpaid, 40c per dozen, \$1.00 per 50, \$1.75 per 100. By express or freight, 30c per dozen, 75c per 50, \$1.25 per 100, \$8.00 per 1,000.

HOP ROOTS

Oregon's Famous English Cluster Hops.
Regular Root Cuttings, 10c each, 3 for 25c; 75c doz.; \$4.00 per 100, postpaid.

HORSERADISH ROOTS

Plant in the spring 18 by 24 inches apart. Set the whole root small end down.
Prices—2 for 15c; 50c per doz.; \$2.00 per 100. Low prices by the 1,000.

SPRAYS, INSECTICIDES

DIAMOND LIME AND SULPHUR SOLUTION

Diamond Lime and Sulphur Solution is prepared in pressure tanks by steam, and is of the highest efficiency. Tests 30 Baume Scale. For old infested trees use 8 gallons water to 1 gallon. For young trees 10 gallons.

Price, 1 qt. 30c—1 gal. 75c—5 gals. \$2.40—10 gals. \$4.50—50-gal. bbl. \$12.00.

SEE OUR ANNUAL 1924 CATALOGUE.

DIAMOND SPRAY-OIL

The Hood River miscible oil spray, used by the big orchards for leaf roller.

As a **WINTER SPRAY**—For San Jose Scale, Pear Scylla, Leaf Roller, Woolly Aphis, use one gallon of Spra-Oil to 15 or 16 gallons of water.

As a **SUMMER SPRAY**—Very efficient for young San Jose Scale and certain Aphis, diluted with 50 to 100 gals. of water to 1 gal. of Spra-Oil.

Price, qt. 40c—gal. 95c—5 gals. \$3.50—10 gals. \$6.50—bbl. \$22.00.

DIAMOND FERTILIZERS WRITE FOR PRICES

GENERAL AND VEGETABLE

An all-round fertilizer, which can be used on any crop, but is especially adapted for grain and general farm crops. Analysis: Nitrogen, 2.50 per cent; phosphoric acid, 9.20 per cent.

100 lbs. \$2.75—per ton \$53.00

We carry a complete line of **FERTILIZERS** for all your needs. Our **Annual Catalog** and also our free booklet on **Fertilizers**, fully describing them, will be mailed you on request. They are handled on small margin, we will be pleased to quote you price on request.

MISCELLANEOUS FLORISTS' SUPPLIES

FOR FLORISTS AND NURSERYMEN
PLANT STAKES—Round cedar, painted green,
 3 ft. \$1.00 doz.—3½ ft. \$1.25—4 ft. \$1.60—
 5 ft. \$2.00—6 ft. \$3.00.

VITAPLASTIC—(Glazing Compound)—The
 best, most dependable glazing material.
 Never hardens or cracks. Write for circular.
 Price, gal. \$2.50; 5 gals. \$11.25; 20 gals.
 \$40.00.

VITAPLASTIC MACHINE \$7.50

WOODEN POT LABELS

4-inch. Plain, per 100 20c; 1,000 \$1.30
 Painted, per 1,000, wt. pkd. 4 lbs., 1.75
5-inch Plain, per 100 25c; 1,000 1.65
 Painted, per 1,000, wt. pkd. 6 lbs. 2.15
6-inch. Plain, per 100, 20c; 1,000 2.10
 Painted, per 1,000, wt. pkd. 9 lbs., 2.60

WIRED TOOTH PICKS—2½ inches long.

WIRED MATCH STICKS—4 inches long.

WIRED MATCH STICKS—6 inches long.

NICO FUME LIQUID—The best fumigant and
 spray for greenhouse work. Kills aphids, red
 spider, mealy bug, thrip, etc. Write for prices.

TREE LABELS


Painted copper wire, per 100 40c; 1,000 \$2.40
 Unpainted copper wire, wt. pkd. 4 lbs. per
 1,000. Per 100, 35c; 1,000 \$2.00

PENCILS—Indelible, for marking. Each 15c.

WIRE HANGING BASKETS—10 in. 25c—
 12 in. 30c—14 in. 40c. Special Quantity
 prices.

GLAZING POINTS—(Peerless)—Best point
 made. 1,000 in box. Weight 2 lbs. Price 75c
 Our line of Chiffons, Ribbons, Cords, Wire
 Designs, Foil, Baskets and general Florist
 Supplies stock is very complete.

RAFFIA

 In ordering Raffia by mail, be sure to add
 postage on 1 lb. or more.

RAFFIA—Natural color. Price, ¼ lb. 15c—
 postpaid, 20c; not postpaid, per lb. 30c.

COLORED RAFFIA—Any shade, the popular
 colors being red, yellow, orange, black, blue
 and purple. Per pkg. postp'd 25c, per lb. \$1.50
Headquarters for MAGNOLIA LEAVES.

Write for prices. We can save you money.

CYCAS LEAVES—Sizes 8 x 12, 12 x 16, 16 x
 20, 20 x 24.

WIRE—Cut and uncut. Sizes 18, 20, 22, 24.
 Cut in 12 lb. boxes, and uncut in 12 lb. coils.

WIRE DESIGNS—For Florists, Anchors, Bases,
 Broken Columns, Broken Wheel, Crescent,
 Crescent Wreaths, Crosses, Odd-Fellows
 Pillows, Shower Wreaths, Shields, Stars, Tri-
 angles, Wreaths flat. Tell us what you want
 and we will supply it.



BULL DOG CLIPS—If once
 used, always used.

Price, \$1.00 per box of 1,000.

CUT FLOWER BOXES

We can supply Cut Flower Boxes in the following sizes. Florists write for prices.

3x18x5
 3x21x5

3½x24x5
 3½x30x5


4x24x8
 5x28x8

5x36x8
 6x40x10

6x36x14
 8x16x16

8x20x20
 8x24x24

FLOWER POTTS

 Florists, nurserymen and growers should send list of requirements for Special Prices.

BIRD'S NEPOSET WATERPROOF PAPER FLOWER POTTS

These pots can be used over and over for transplanting and similar use. In fact, the pots can
 be used in every way that earthen pots can. Ideal for transplanting and shipping potted plants.
 Cost less. No breakage. Hold moisture better. Their use is increasing. Why not try them?

PRUNING TOOLS, ETC.

PRUNING SAWS

No. 13—California Pruner (Crescent). Finest
 silver steel. 14-inch. Each \$1.25

No. 1—Pruning Saw. Made of genuine silver
 steel. 16-inch. Ea. \$1.35; 18-inch, Ea. \$1.50

No. 3—Duplex Pruner. 16-inch. Each \$1.50;
 18-inch. Each \$1.75.

NEW BASTIAN PRUNER

Makes a Clean, Sharp Cut

The powerful lever of the new Bastian
 Pruner enables you to do the same work in half
 the time and with half the labor that would be
 required with old-style Pruners.

Prices F. O. B. Portland

6-ft. . . . \$1.75 10-ft. . . \$2.25 14-ft. . . \$2.75
 8-ft. . . . 2.00 12-ft. . . 2.50 16-ft. . . 3.00

PRUNING SHEARS

No. 4773—9-inch; full polish, with double brass
 springs; best American make. Wt. 1 lb., \$2.35

No. 40—9-inch; bright finished, polished blade,
 spiral steel spring; made for hard service.
 Weight 1 lb. Price \$1.75

No. 41—Same as No. 40, except with ratchet
 nut. Weight, 1 lb. Price \$1.90

No. 30—7-inch, black finish; polished blade;
 very good. Weight 1 lb. Price \$1.25

No. 31—Same as No. 30, only 9-inch ratchet
 nut; an American make. Wt. 1 lb. Price \$1.40

Levins Shear No. 23. Price \$1.00
 Grape or fruit thinning. Price 65c

BRANCH SHEARS

No. 126—26-inch. Weight 5 lbs. Price \$2.45

Fig. 35—Standard pattern. Satisfactory for
 light work; a good value.

24-inch handle, weight 2½ lbs., \$1.60

CLOVER AND ALFALFA SEEDS

Single pound and 10-pound prices postpaid. For larger lots write for prices. Prices given in catalog subject to market changes. Orders filled at lowest market price.

Grimm Alfalfa

Grimm Alfalfa is the hardest Alfalfa known. In trials, at practically every Experiment Station in the West and Northwest, it has headed the list for vigor and hardness.

Being scarce and in big demand the price is high but the value of Grimm has been demonstrated beyond question and we recommended its trial.

Price per lb. 65c, postpaid. Write for prices in quantities.

DRY LAND ALFALFA—Dry Land Alfalfa will produce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah, and is especially recommended for the hills and plateaux where irrigation is impossible. It comes from the highest, driest alfalfa sections, and is very superior seed.

Write for prices; state quantities wanted.

10 lbs. postpaid \$2.75

ALFALFA—Our domestic Alfalfa is acclimated, and will thrive splendidly where growing conditions are normal, including irrigated land. Where dry farming is practiced, special Dry Land Alfalfa is recommended.

Write for prices; state quantities wanted.

10 lbs. postpaid \$2.65

Clovers

WHITE DUTCH CLOVER—(*trifolium repens*)

—Superior for pasture and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass.

80c per lb. postpaid.

RED CLOVER—(*trifolium pratense*)—The standard Clover for all purposes. Hardy and succeeds well on any good soil. Makes superior hay—especially mixed with Timothy—either for dairy cows or for general use.

10 lbs. postpaid \$2.95

CRIMSON or SCARLET CLOVER—(*trifolium incarnatum*)—Highly recommended for pasture and fertilizing purposes. Is a thrifty annual.

Write for prices.

MAMMOTH RED CLOVER—Grows very large and is used almost exclusively for plowing under for manure.

Write for prices.

BOKHARA SWEET or HONEY CLOVER—(*melilotus alba*)—A rapid-growing, white-flowered sort; excellent for bees. Sow 10 pounds per acre.

Write for prices.

ALSIKE or SWEDISH CLOVER—(*trifolium hybridum*)—A perfectly hardy perennial. Excellent for hay and pasture. Valuable for bees. Resists both drought and excessive moisture.

10 lbs. postpaid \$2.95

"DIAMOND QUALITY"

GRASS SEED

Grass Seed prices subject to change without notice.

10-pound prices postpaid, for larger lots write for prices.

ITALIAN RYE—(*lolium italicum*)—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures (will last from two to six years). Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre.

Prepaid, 10 lbs. \$2.25

RED TOP—(*agrostis palustris*)—A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow 28 pounds per acre chaff seed; 14 pounds hulled.

CHOICE UNHULLED, Prepaid, 10 lbs. \$2.50.

FANCY HULLED, Prepaid, 10 lbs. \$3.15.

SHEEP'S FESCUE—(*festuca ovina*)—Grows freely in high, dry and open pastures. Its chief merit is for sheep pasture. Thirty-five pounds to the acre.

Write for prices.

ENGLISH RYE GRASS—(*lolium perenne*)—A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Forty pounds per acre.

Prepaid, 10 lbs. \$2.25

ENGLISH RYE GRASS—Short Seeded—For Lawns this is used and recommended by many gardeners. If sown thickly, it makes a fine lawn, and for large grounds and parks it is very successful.

Prepaid, 10 lbs. \$2.50

KENTUCKY BLUE GRASS—(*poa pratensis*)—One of the best grasses for permanent pasture furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre.

For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures. Sow 1 lb. to 200 sq. ft. if used alone.

Prepaid, 10 lbs. \$3.75

CANADIAN BLUE GRASS—(*poa compressa*)—Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre.

Write for prices.

WRITE FOR QUANTITY PRICES AND TAKE ADVANTAGE OF LOWEST PRICES. THE MARKET PRICE FLUCTUATES. LET US MAKE YOU A FIRM PRICE.

GRASS SEED—Continued

SWEET VERNAL—(*anthoxanthum odoratum*)—Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Thrives under all growing conditions, but is only recommended for use in mixtures. If alone, use 28 pounds per acre.

ANNUAL. Prepaid, 10 lbs. \$3.90.

Write for quantity prices.

CHEAT SEED—(*bromus secalinus*)—Cheat yields a good crop of hay, especially on low or moist soil and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the Fall or early Spring same as oats, and about 100 pounds per acre. **Not prepaid, 100 lbs. \$2.25**

MEADOW FESCUE—(*festuca pratensis*)—Perennial; grows three to four feet high. Roots deep, thus resisting drouth. It succeeds on any high ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds. Sown alone, use 40 pounds per acre.

Prepaid, 10 lbs. \$2.80

ORCHARD GRASS—(*dactylis glomerata*)—

One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre

Prepaid, 10 lbs. \$2.85

TALL MEADOW OAT GRASS—(*avena elatior*)—Often attains a height of 3 to 4 feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay.

10 lbs. postpaid \$4.50

Write for quantity prices

MESQUITE—(*notholcus lanatus*)—It is usually sown on virgin soil, without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed; hulled 15 pounds per acre.

Write for prices.

TIMOTHY—(*phleum pratense*)—This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the Spring or Fall. Sow 15 to 20 pounds per acre.

Prepaid, 10 lbs. \$1.35

DIAMOND GRASS SEED MIXTURES



DIAMOND QUALITY GRASS SEEDS are the choicest new crop seeds, re-cleaned and tested for purity and germination, and only those stocks that grade above the established standards are offered to our customers.

Our **Special Mixtures** have been carefully worked out by the tests and observations of practical experts familiar with the requirements and conditions to be met, and will give the best results possible to obtain for the uses for which they are recommended.

"DIAMOND" FANCY LAWN MIXTURE

TO have a good lawn the soil must be fine and rich, and well leveled. Then the best seed obtainable should be used. Plant any time from September until late Spring, depending upon the weather and soil conditions. Raking in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often, as light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture costs more at first than the poorer substitute, but will be found much cheaper and more satisfactory in the end. Our "Diamond Quality" Fancy Mixed Grass Seed is prepared from the choicest re-cleaned Grass Seeds that have been carefully selected for their fineness and deep rooting, close growing habits and seasonable qualities, producing an ideal dense, velvety turf of lasting quality that remains green throughout the year. Sow one pound to 200 square feet, 20 to 25 pounds to a 50-foot lot.

Growing tests have proved our "Diamond Quality" Lawn Grass to be superior to any other mixture for our Western soils and climate; it is also free from chaff and foul seeds, weighing 23 pounds to the measured bushel. This is a guarantee of clean, plump seeds, as cheap chaff seed is very light.

Single lb. postpaid 55c; not prepaid lb. 50c; 10 lbs. postpaid \$5.00

"DIAMOND QUALITY" SPECIAL PASTURE MIXTURES

STANDARD PASTURE MIXTURE—For general use; gives splendid satisfaction in the logged-off and burned-over lands of Western Oregon, and Washington; is composed of standard Pasture and Hay grasses that thrive in this section; a good clean mixture, conforming to the standard of the pure seed laws.

Per 100 lbs. \$15.00

No. 11. FOR GRAZING PURPOSES—This is a mixture of grasses only, being made up for the benefit of those who wish a mixture without Clover, and will make a fine permanent pasture, but is not intended for hay.

Not prepaid, 10 lbs. \$3.75

No. 12. FOR BURNED-OVER BOTTOM LAND, OR LAND INCLINED TO BE WET

—This is a mixture that will do well either for hay or for permanent pasture on land that is too wet for many of the grasses and clovers.

Not prepaid, 10 lbs. \$2.90

SPECIAL MIXTURES for BURNS, DRY or WET LANDS—Temporary or Permanent Plantings for Hay or Pasture—**WRITE US.**

WRITE FOR QUANTITY PRICES AND TAKE ADVANTAGE OF LOWEST PRICE. THE MARKET PRICE FLUCTUATES. LET US MAKE YOU A FIRM PRICE.

SEED OATS

THE production of fine seed oats has always been one of our leading specialties and we consider them to be the most profitable and satisfactory grain crop, being indispensable to stock and dairymen, and their use as a food is constantly increasing.

Planted in season, oats rarely fail, are easily and cheaply grown, and the valuable new varieties which we offer will double the number of bushels per acre that you would get from common seed oats, which means half the cost of production, or twice the profit.

They will mature in July from Spring sowing, giving quick returns and leaving the soil in good condition for Fall planting.

We offer select, re-cleaned, well-matured seed oats of standard varieties, suitable for this section and our own introductions, "**ECLIPSE**," "**CLIMAX**" and "**TRIUMPH**," the earliest and most vigorous, heaviest yielding oats ever grown anywhere.

"**ECLIPSE**"—**Side Oat**—is a reselection from our famous "Shadeland Challenge," and is living up to its name by "eclipsing" all competitors, including the parent stock, being equally as vigorous and early and the massive heads are uniformly larger and filled with plump, heavy thin-hulled oats of finest milling quality.

The yield on light dry soil where our seed crops are grown runs from 75 to 85 bushels per acre and moist bottom land 125 bushels per acre is not uncommon.

"**ECLIPSE**" can be planted Fall or Spring, west of the mountains (Fall plantings should be made on well-drained soil), but in severe climates early Spring planting is best. Matures in 90 to 100 days, and can always be harvested before the Fall rains.

"**CLIMAX**"—**Tree Oat**—For early Spring planting where seasons are short, in high, dry altitudes, and where quick growth and early maturity are demanded, "**CLIMAX**" will give you a bountiful harvest of the finest oats you ever saw. The white grains are uniformly large, plump and full with a very thin hull and are often borne 3 in a spikelet, which partly accounts for its wonderful yield.

In our trials "**CLIMAX**" has not been injured by severe early freezing and later drought, but has stood up, green and vigorous, yielding one hundred bushels per acre on hill land when oat crops throughout the same section were stunted and dried up.

If you live West of the Cascade Mountains you can plant "**Climax**" Fall or Spring, any time the ground is fit, but where the climate is severe, Spring plantings are best.

"**TRIUMPH**"—**Side Oats**—is a new production of the "Shadeland Varieties" and present indications are that it will prove one of the best. It has a stiff straw and does not lodge.

Under unfavorable conditions the past season it has yielded better than 75 bushels per acre. You should give them a trial.

Choice Re-cleaned Stock of the following varieties can always be supplied

WHITE SEED OATS—We always try to have a selected re-cleaned stock of No. 1 White Seed Oats which we can supply at market prices. Write for samples and prices on the quantity you require.

GRAY WINTER—This Oat is planted extensively throughout the Northwest as a Fall or Winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump.

SWEDISH RED—A comparatively new tree Oat from Sweden having a soft hull and fine soft straw which is ideal for hay. This is the Oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in Fall or Winter.

Write for prices.

WHEAT

PRIOR to the adoption of the U. S. Grain Standard the Pacific Northwest did not use the grades established by the big eastern wheat centers, but since the U. S. Standards have become effective it is impossible to market mixed varieties of wheat or other grains at the best prices, and growers will find it necessary and profitable to plant only clean, pure seed standard commercial varieties.

We have provided splendid stocks of the best sorts for this section and when ready to buy any variety of Seed Wheat, write us for quotations on quantity wanted or send in your order and we will give full value at lowest seed prices. The following are standard market varieties that are known as the most profitable and best yielding for fall seeding:

BLUE STEM—The best known and one of the most profitable Spring varieties for the Northwest. Heads are large and well-filled, stools freely. Grain very hard. Although a Spring variety, can be planted as a Fall wheat in sections where Winters are mild.

FORTY FOLD—(Winter)—Forty Fold is referred to as "Gold Coin" in some sections. It is quite early, seed resembling Blue Stem. A favorite Winter variety in many localities, and in good demand for milling.

Write for prices.

RED CHAFF—(Winter)—Beardless with red chaff and white kernels. Popular variety for Western Oregon and Washington. This variety is often confused with Foise.

Write for prices.

RED RUSSIAN—(Winter)—This is extensively grown in the Palouse country of Eastern Washington, where conditions are favorable. It grows vigorously, maturing late, and gives a heavy yield of both grain and foliage. It is a superior variety for choking out weeds, growing close and luxuriantly.

WRITE FOR QUANTITY PRICES AND KNOW THAT YOU ARE GETTING THE MARKET PRICE ON A FIRST CLASS TESTED SEED OR GRAIN

WHEAT—Continued

WHITE WINTER WHEAT—Soft white Winter Wheat. Beardless with white chaff. Kernels short and plump. A good milling wheat suited to well drained lands west of the Cascade Mountains. Often confused with Rink Wheat but grain and head are both larger and has yielded more under same conditions.

Write for prices.

RINK—(Winter)—Similar to White Winter and often mistaken for it, but having a little shorter kernel and head. Yields well and has proven profitable on the well drained rolling lands of the Willamette Valley.

Write for prices.

Write for prices.
FOISE — (Winter) — Medium hard kernels. Beardless, chaff red. Heads slightly club-shaped at tip. Specially adapted to the richer soils and prairie lands of the valleys and foothills west of the Cascades, and under favorable conditions yields heavily. Mills well.

Write for prices.
TURKEY RED—(Winter)—A medium hard red bearded variety; a heavy yielder and does not shatter out easily. Is very hardy, doing well in cold climates, but in moist sections has a tendency to lodge badly. The grain is hard and of good quality. A good wheat for the dry sections east of the Cascades.

Write for prices.

SEED RYE

WINTER RYE is hardy and can be grown on a wide range of soils and makes splendid pasture for late Fall and early Spring after which it will develop a good grain crop or can be turned under for soiling. **Write for prices.**

ROSEN RYE—A fall or winter rye brought from Russia in 1909. Each head fills four complete rows of grain. The grains are much larger than of common rye and the yield double and some make it stronger and say three for one. You cannot make a mistake in trying it.

Write for Prices

Vetches or Tares

Northwest's Greatest Forage Plant

COMMON VETCH—(*Vicia sativa*)—One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. It furnishes an abundance of excellent feed, either green or cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Vetches weigh 70 pounds per bushel. Sow in the Fall or early Spring. **\$5.00 per 100 lbs., F.O.B. Portland**

SAND or WINTER VETCHES—(*Vicia villosa*)—This variety thrives on poor, arid, sandy soils. It is sown either in the Fall or early Spring and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterwards for seed. The plant is perfectly hardy and makes a very nutritious food.

PURPLE VETCH—(*Vicia atropurpurea*)—May be considered as a new vetch, it having been grown only to a limited extent, mainly in Oregon and California. It is a distinctly new variety and takes its name largely from the color of the blossom, which is a deep purple. It is being used by a great many orchardists for plowing under. It can be grown as cheaply as Common Vetch and should be planted in the fall on well drained fertile soil, 60 pounds to the acre. It may be used as a hay or silage crop. The plant has been found to be free from attacks of the aphids.

Write for prices.

WOOLLY-PODDER VETCH — (*Vicia dasy-carpa*)—Closely related to hairy vetch, equally hardy, two to three weeks earlier. It differs from Hairy Vetch, having nearly smooth leaves, purple flowers and hairy pods.

Write for prices.

HUNGARIAN VETCH

Hungarian Vetch, after having been grown at the Oregon Experiment Station for the past fifteen years and by cooperating farmers for the past four years, is undoubtedly destined to become a very important annual leguminous farm crop for this state, especially the western part.

Aphis Resistance—Its aphis resistance is probably the largest single factor toward making it a generally grown crop in Western Oregon. During years when aphids practically destroyed many other farm crops this vetch was injured comparatively little and produced practically normal crops of forage and seed.

Hungarian Vetch is seldom attacked by diseases or insect pests. At no time since the crop has been grown here has any loss occurred due to disease or insects.

Experience has shown that Hungarian is a heavier yielder in both hay and seed than other vetches grown here under similar conditions.

\$8.50 per 100 lbs., F.O.B. Portland

THIS CATALOG ISSUED BEFORE PRICES ARE FIRMLY ESTABLISHED. ALL GRASS AND GRAIN SUBJECT TO MARKET CHANGES. WRITE US FOR FIRM QUANTITY PRICES. OPEN ORDERS FILLED AT LOWEST PRICE ON DATE OF RECEIPT OF ORDER.

Treat Your Seeds with Formaldehyde

A Preventive for Smut in Grain—Scab and Fungus Diseases of Potatoes

Formaldehyde is a clear chemical, resembling water, but has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

The following method is in general use: To treat 20 bushels of oats requires $\frac{1}{4}$ pint of Formaldehyde diluted with 5 gallons of water. Spread the oats on a floor and sprinkle with the diluted solution. Then turn them twice with a scoop shovel. Allow to stand for 12 hours. Then spread to dry. Any quantity can be treated by using the same proportions. Oats thus treated will be entirely free from smut.

Prices, pint 60c; quart \$1.00; gallon jug \$3.25; express or freight at purchaser's expense; cannot be mailed.

CORONA COPPERCARB

Important changes have been made in the treatment of seed grains for the control of bunt, stinking smut, etc. The new way consists of dusting the grain with copper carbonate. It will supplant the commonly known and very distasteful formaldehyde method because the copper dust gives successful results in the control of the diseases, but does not in the slightest degree hurt germination, and at the same time relieves the farmer of a most irksome task.

Treating the grain with Corona Coppercarb can be carried out by a shoveling over process, but an ordinary barrel churn is better. If such an outfit is rotated slowly a very satisfactory distribution of the dust will be made over all the surface of the grain. These churns come in all sizes and will meet the needs of most all farmers. The operation is very simple and does not require much time. One churn will dust a large quantity of seed.

This simple dusting method with Corona Coppercarb, or even with a concentrate, means a lot to the farmer who is riding the drill from daylight to dark and has been obliged in the past to treat the grain sometime during the late evening or perhaps at night. It will eliminate forever the tedious (almost man-killing) effort of the sloppy formaldehyde process.

USE 2 to 4 OUNCES PER BUSHEL OF SEED

Price, 25-lb. cans only, \$5.50

The Clipper Grain and Seed Cleaner

Used by all Agricultural Colleges and by the U. S. Department of Agriculture

No work done on the farm brings such large returns as thoroughly preparing the grain and seed by recleaning and grading for planting. This insures an even stand of strong, healthy plants, and a larger yield of a higher grade. The "Clipper" cleaner is especially adapted to this kind of work on account of its ability to separate the small, also the light, dead seed or grain from the perfect seed or grain.

Other mills depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper" screens all straw and foreign matter from the grain before it enters the air shaft, and the "Vertical Blast" does the rest.

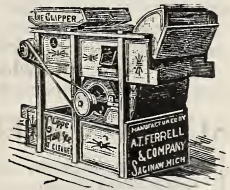
Screens are so arranged as to be in plain view and of easy access to the operator while machine is in operation, and a set of ten being furnished with either the No. 1B or No. 2B. These are ample for general work—but special screens can be furnished for any cleaning operation.

Guaranteed to do the most perfect work of any Hand Seed Cleaner manufactured.

The "Clipper" is a first-class, inexpensive and durable mill for general use.

No. 1B—Capacity 20 bu. Grain or 10 bu. Seed per hour.....	\$42.50
No. 2B—Capacity 25 bu. Grain or 15 bu. Seed per hour.....	50.00
No. 6—POWER MILL. Capacity 200 bu. Grain or 35 bu. Seed per hour.....	150.00
No. 16—POWER MILL. Capacity 200 bu. Grain or 35 bu. Seed per hour.....	265.00

We can also supply Clipper Power Cleaners of large or small capacity for any purpose.



☛ We have supplied "Clipper Cleaners" to the mills, dealers and prominent growers of the Northwest. If you grow grain or seed and do not own a "Clipper," you are losing many times its cost every year. Let us send you "The Clipper" Catalog of hand and power cleaners. All sizes and prices. A "Clipper" will improve the quality and increase the yield of grain.

Broadcast Seed Sowers

CYCLONE—Save Valuable Seed—It is like throwing money away to sow more seed than is necessary. Uneven seeding is just as wasteful. With the Cyclone Broadcast Seeder you can sow any kind of seed perfectly even over the ground at the rate of fifty acres per day and any desired amount per acre. It will pay for itself in the saving of seed in a few hours' work. **Each \$2.50**

TIN HORN SEEDER—Adjustable. A good serviceable seeder at a very low price. Weight 1 lb. **Each \$1.00**

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

SHARPLES CREAM SEPARATORS

WE are Northwestern Agents for the splendid products of the Sharples Co. Their new "**Suction Feed**" Separators are the only Separators that will skim clean at any speed and this feature alone guarantees one-fifth more cream than can be saved by any other separator.

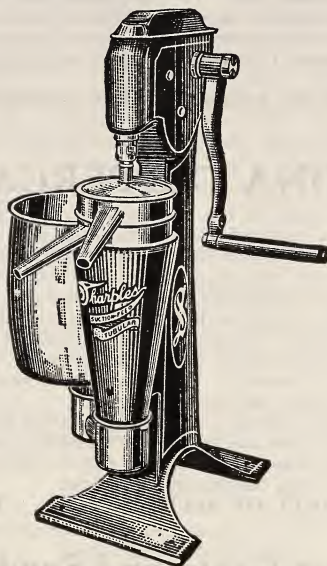
*Oil Tight Gear Case
Oil Once a Month*

*The only Separator
which skims quicker
when turned faster*

*No need to watch
your speed*

*"Suction Feed"
sucks milk
into Bowl
in proportion
to speed—result
clean skim
at any speed*

*The only
Separator
with knee low
Supply Tank*



*Suspended single frictionless
ballbearing—that's why the
Sharples runs easier.*

*Bowl skims clean at low
speed—cream stays same
thickness at any speed.*

*Patented
Tubular
Bowl
creates
double
skimming
force*

*The
Simple
Tube
has no
discs
to wash*

YOU ARE FAMILIAR with the well-known advantages of the regular Tubular Separator. You know the simple, tube-shaped bowl, with its enormous skimming force (double that of any other machine made)—no discs, easily cleaned, almost indestructible. You know the advantages of having all the gears solidly encased and running in oil. You know how the bowl hangs from a single ball-bearing, spinning naturally, instead of being supported from below.

The "**New Sharples**" with all these advantages needs only its **new features** described here of which the most important is the

SUCTION FEED

The milk is drawn up through the bottom of the bowl by the suction force of the revolving bowl—and the greater the speed the faster the separation—*But at all speeds the New Sharples Skims Clean*—and the cream is of a uniform density—just what you set the cream screw for—and—you get all the cream at any speed—fast or slow—and the faster you turn the greater the capacity. *This is true of no other separator.*

SHARPLES NEW SUCTION FEED SEPARATORS—Retail prices F. O. B. Portland, Oregon

Subject to factory change—Five per cent discount Cash with Order

	Capacity	Price		Capacity	Price
NEW PRESSTEEL.....	300 lbs.	\$57.50	No. 4-B.....	500 lbs.	\$ 88.00
No. 1-B.....	200 lbs.	60.00	No. 6-B.....	700 lbs.	103.00
No. 2-B.....	300 lbs.	70.00	No. 9-B.....	900 lbs.	128.00
No. 3-B.....	400 lbs.	77.50	10-Turbine.....	1000 lbs.	153.00

New Pressteel without stand, capacity 300 lbs..... \$52.50

EQUIPMENT—Speed Governor Pulley, complete for power drive..... \$15.00

Motor and equipment assembled for any size dairy machine, either

A. C. or D. C. Voltage 110 or 200..... 50.00

TERMS—Send references, state amount willing to pay down and payments desired.

THE NATIONAL CREAM SEPARATOR

We have a few of these machines in stock for immediate delivery, the No. 26, capacity 600 pounds, 10 to 30 cows, shipping weight 170 pounds, that we will make you special price of \$67.50 F. O. B. Portland, Oregon, while they last. No orders filled for these machines at this price after our stock is exhausted, so order early.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

EVERYTHING FOR THE POULTRYKEEPER

Pullets, Hens and Roosters from the best laying strains. Deliveries of Baby Chicks will begin March 1st, 1924.

Send for Catalog of Buckeye Incubators and Brooders.

Always feed Diamond Brand Poultry Foods.

BIRDS

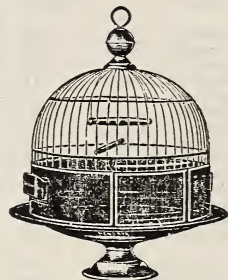
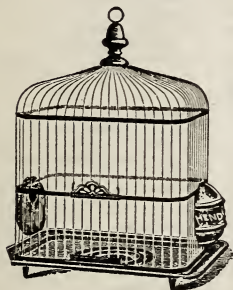
We can supply birds from the ordinary singer to the imported Rollers in their season. Write for prices.

CANARY BIRD CAGES

The Hendryx Cage is known to be the best cage that is manufactured and we believe we carry the most complete line in the Northwest. Limited space in this catalog will not permit us to illustrate all, but if further interested, send description of special cages wanted. We offer herewith three of our most popular sellers. Prices subject to change.

BRASS CAGES WITH GUARD

No. 0274.	Size 10	x16	inches.	Price.....	\$5.00
No. 0275.	Size 11	x16½	inches.	Price.....	6.00
No. 0276.	Size 11½	x18	inches.	Price.....	7.00



SPECIAL JAPANNED CAGES

				With Guard	Without Guard
No. 0165.	Size 9½	x6½	x15½ inches.....	\$3.65	\$2.25
No. 0166.	Size 10½	x7	x16 inches.....	4.50	2.85
No. 0167.	Size 11	x7½	x16½ inches.....	4.90	3.25
No. 0168.	Size 12¼	x8¼	x17 inches.....	5.50	3.50
No. 0169.	Size 13	x8¾	x18 inches.....	6.00	3.75

FANCY JAPANNED CAGES

White Enamel or Ivory

No. 06.	Size 10x16¾	inches.	Price.....	With Guard
No. 06½.	Size 11x17½	inches.	Price.....	\$4.75
No. 07.	Size 12x18	inches.	Price.....	5.25
				6.00



PUPPIES AND DOGS

Tell us what you want in dogs. Specify breed, color, sex and stock. Pedigreed or just pure strain. Prices range from \$7.50 to \$75.00. We are agents for Spratt's Dog and Bird foods and Glover's Dog Remedies.

BELGIAN HARES

RUFUS REDS AND FLEMISH GIANTS. HEMALIANS—The Fur-Bearing Kind—
Fine sturdy stock of extra vigor and vitality. Full instructions for care and housing with every purchase.

Thoroughbred Pedigreed Stock on Request.


Prices depend on grade of stock and special quotations will be made on request.

PIGEONS

Clean, healthy stocks in standard and fancy breeds can be furnished on short notice.

Tumblers, Carneaux, White Maltese, Squab Breeding Homers and White Fantails.

Order ahead. Always allow from 3 days to a week for us to make delivery.

 **WRITE US for Fancy Breeds of Pigeons. We can supply them at Right Prices.**

We will be pleased to have you write us for any article wanted not found listed herein

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

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Flavoring and Medicinal Herbs—Plants

CHIVE—Has mild onion flavor, grows in grass-like clumps; much used for flavoring.

Each 15c; doz. \$1.50

ROSEMARY—Infusions of the leaves are used in medicinal beverages. Produces an aromatic oil.

Each 25c; doz. \$2.50

PEPPERMINT—Hardy perennial for producing oil.

Each 25c; doz. \$2.50

THYME—Broad leaved, used in soup, stuffing and sauce.

Each 25c; doz. \$2.50

LAVENDER—By distillation produces the well-known Lavender water, the flowers for perfuming wardrobes, etc.

Each 25c; doz. \$2.50

Large clumps, each 50c

SANTOLINA or (Lavender Cotton)—Used as border plant or for medicinal purposes.

Each 20c; doz. \$2.00

SAGE (Giant)—The leaves and tender tops are used in stuffings and sauce; also in the beverage known as Sage Tea. The Giant Sage is a greatly improved variety.

Each 15c; doz. \$1.50

"BUCKEYE" Hot Water INCUBATORS

We are Northwestern distributors. Write us if interested. See Annual Catalog.

For *Gladioli, Dahlias, Cannas* and *Spring Flowering Bulbs* see our General Catalog. Ready in January

NEW PARCEL POST RATES

PARCEL POST RATES are based on **DISTRICTS** and **ZONES**. **THE DISTRICT** includes the office where mailed and the rural routes therefrom.

A DISTRICT RATE OF 5 CENTS for the **first pound** and **1 cent** for each **additional** two pounds or fraction thereof up to **70 pounds** (the district weight limit) is charged between points in this district

First and Second Zones cover a radius of 200 miles from the point of mailing, having a weight limit of **70 pounds** and a rate of **5 cents** for the first pound and **1 cent** for each additional pound, or fraction thereof.

The **Third Zone** also has a weight limit of **70 pounds**.

A weight limit of 50 pounds applies to the **fourth, fifth, sixth, seventh and eighth zones** with rates increasing with the distance. See table.

SIZE AND WEIGHT—A Parcel Post package may weigh from 4 ounces to 70 pounds for the first, second and third zones—with a 50-pound weight limit for fourth to eighth zones, and **must not exceed in size 84 inches in length and girth combined**.

Four Ounces or less will be charged for at 1 cent per ounce or fraction thereof, **except** on Books, Seeds, Plants, Bulbs, etc., which are 1 cent for 2 ounces up to 8 ounces for any distance.

We have catalogued the weight of most items mailable by Parcel Post and by reference to the table you can always figure your postage.

Parcel Post Rates apply to Seeds, Plants and Books weighing over 8 ounces. Other fourth-class matter over 4 ounces is charged at pound rates	First Pound or Fraction Thereof	Each Additional Pound or Fraction	
Local or District Rate— Spokane Office and Rural Routes therefrom	\$0.05	½ cent	Weight Limit 70 lbs.
1st Zone/up to and including a radius of 200 miles from the point of mailing	.05	\$0.01	Weight Limit 70 lbs.
2nd Zone	.06	.02	Weight Limit 70 lbs.
3rd Zone	.07	.04	Weight Limit 50 lbs.
4th Zone	.08	.06	Weight Limit 50 lbs.
5th Zone	.09	.08	Weight Limit 50 lbs.
6th Zone	.11	.10	Weight Limit 50 lbs.
7th Zone	.12	.12	Weight Limit 50 lbs.
8th Zone			Weight Limit 50 lbs.

The 8th Zone rate applies to **ALASKA, HAWAII** and the **PHILIPPINES** with 20 lb. weight limit—To **MEXICO** with 11 lbs.; **CUBA**, 4 lbs. 6 oz.; **PANAMA**, 4 lbs. 6 oz. Postage to **CANADA** on 4th Class packages of over 4 oz. and **NOT EXCEEDING** 4 lbs. 6 oz., go at 8th Zone rate.

PLANTING TABLES

DISTANCES RECOMMENDED FOR PLANTING

Apples (Standard)	25 to 40 ft. each way	Currants	5 ft. x 3 ft.
Pears (Standard)	20 to 35 ft. each way	Gooseberries	5 ft. x 3 ft.
Quince	15 ft. each way	Strawberries (hills)	36 in. x 18 in.
Peaches	18 to 24 ft. each way	Strawberries (matted rows)	48 in. x 12 in.
Plums	15 to 20 ft. each way	Grapes	8x8 to 10x12 ft.
Cherries	25 to 40 ft. each way	Asparagus	4 x 1 ft.
Blackberries	6 ft. x 4 ft.	Rhubarb	4 x 2 ft.
Raspberries	6 ft. x 3 ft.		

NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

In planting trees the greater distance should be given in the richer soils

DISTANCE APART	Square Method	Triangular	DISTANCE APART	Square Method	Triangular
1 foot apart each way	43,560	50,300	15 feet apart each way	193	223
2 feet apart each way	10,890	12,575	16 feet apart each way	170	196
4 feet apart each way	2,722	3,143	20 feet apart each way	108	125
6 feet apart each way	1,210	1,397	25 feet apart each way	70	81
9 feet apart each way	537	620	30 feet apart each way	48	55
10 feet apart each way	435	502	40 feet apart each way	27	31

RULE SQUARE METHOD—Multiply the distance in feet between the rows by the distance the plants are apart in the row; this gives the number of square feet for each plant or hill; divided into the number of feet in an acre (43,560) gives the number of plants or trees to an acre.

RULE TRIANGULAR METHOD—Divide the number required to the acre "square method" by the decimal .366. The result will be number of plants required to the acre by triangular planting.

NURSERY STOCK

Diamond
Quality

Strawberry
Plants

Asparagus

PANAMA AND
RIVERSIDE

GIANT
RHUBARB

OREGON GROWN
Dug and packed
as ordered

Washington
Asparagus



Portland Ore.